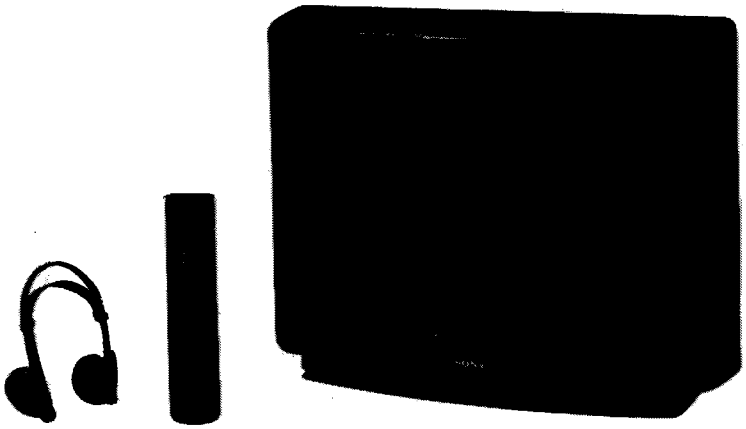
# KV-32XBR26/32XBR36

RM-Y112A TDR-IF310/RM-Y113A

# SERVICE MANUAL



## US Model

*KV-32XBR26*

*Chassis No. SCC-F16L-A*

*KV-32XBR36*

*Chassis No. SCC-F16J-A*

## Canadian Model

*KV-32XBR26*

*Chassis No. SCC-F17L-A*

*KV-32XBR36*

*Chassis No. SCC-F17J-A*

# FN CHASSIS

| MODELS OF THE SAME SERIES | |
|---|---|
| KV-32XBR26/32XBR36 | |
| KV-27XBR35/32XBR35 | |
| KV-27XBR26/27XBR36 | |

## SPECIFICATIONS

Television system: American TV standards

Channel coverage:
VHF: 2-13
UHF: 14-69
CABLE TV: 1-125

Picture tube:
Microblack™ Trinitron® tube
32-inch picture measured diagonally
34-inch picture tube measured diagonally

Antenna:
75-ohms external antenna
terminal for VHF/UHF

Input jacks:
VIDEO IN 1, 2 and 3
S VIDEO IN (4-pin mini DIN)
Y: 1 Vp-p, 75-ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal) 75-ohms
Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative
Audio (phono jacks): 500 mVrms (100% modulation)
Impedance: 47 kilo-ohms

Output jacks:
MONITOR OUT
S VIDEO MONITOR OUT (4-pin mini DIN)
Y: 1 Vp-p, 75-ohms unbalanced, sync negative
Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative
Audio (phono jacks): 500 mVrms (100% modulation)
Impedance: 10 kilo-ohms
AUDIO OUTPUT (VARIABLE)
(phono jacks)
More than 900 mVrms (100% modulation) at the maximum volume setting (variable)
Impedance: 5 kilo-ohms
AUDIO LINE OUT
(phono jacks)
900 mVrms (100% modulation)
Impedance: 5 kilo-ohms

- Continued on next page -

TRINITRON® COLOR TV

SONY®

MICROFILM

| | |
|---|---|
| Speaker output | 13W×2 (8 ohms) |
| Speaker size | Tweeter 25 mm (1 in.)×2 units |
| | Woofer 100 mm (4 in.)×2 units |
| Audio frequency response | Tweeter 8 kHz-20 kHz |
| | Woofer 50 Hz-8 kHz |
| Power requirements | 120 V AC, 60 Hz |
| Power consumption | 225W |
| Dimensions (w/h/d) | Approx. 870×663×575.2 mm (W/H/D) |
| | ($34_{3/8}$×$26_{1/8}$×$22_{3/4}$ inches) |
| Weight | (KV-32XBR26) |
| | Approx. 76.8kg (169 lb 5 oz) |
| | (KV-32XBR36) |
| | Approx. 77.3kg (170 lb 7 oz) |
| Supplied accessories | (KV-32XBR26) |
| | Remote Commander RM-Y112A (1) |
| | with 2 size AA (R6) |
| | EVEREADY batteries |
| | (KV-32XBR36) |
| | Remote Commander RM-Y113A (1) |
| | with 2 size AA (R6) |
| | EVEREADY batteries |
| | Cordless headphones |
| | TDR-IF310 (1) with 2 size AA (R6) |
| | EVEREADY batteries |
| Optional accessories | U/V mixer EAC-66 |
| | Connecting cable |
| | RK-74A |
| | VMC-810S/820S |
| | YC-15V/30V |

Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

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# SAFETY CHECK-OUT

( US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate;be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

## HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground;the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

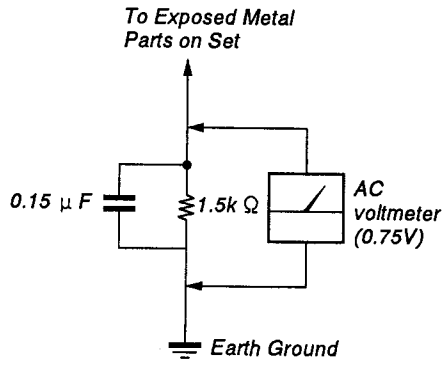



*Fig. A. Using an AC voltmeter to check AC leakage.*

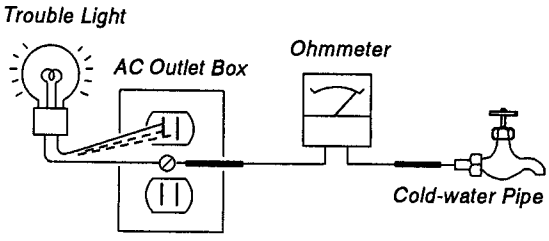



*Fig B. Checking for earth ground.*

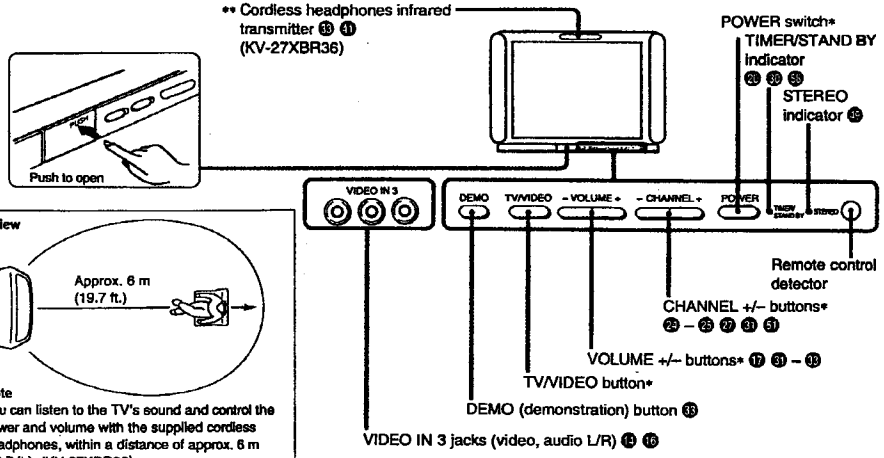
# SECTION 1
# GENERAL

**The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.**

## Locating Controls and Connectors

For details, see the pages indicated by the numbered black circles ●.

**Front**

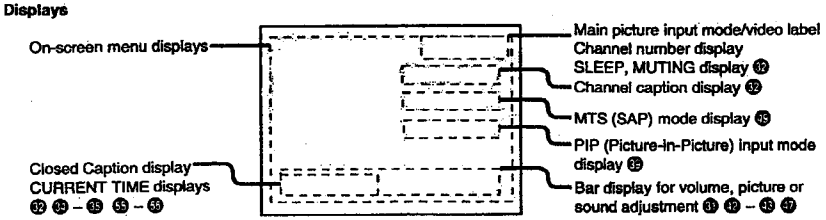

** Cordless headphones infrared transmitter ⓮ ㊶ (KV-27XBR36)
POWER switch*
TIMER/STAND BY indicator ㉔ ㉚ ㉝
STEREO indicator ⓳
Push to open
VIDEO IN 3
DEMO
TV/VIDEO
– VOLUME +
– CHANNEL +
POWER
Remote control detector
CHANNEL +/– buttons* ㉓ – ㉕ ㉗ ㉛ ㉝
VOLUME +/– buttons* ⓱ ㉛ – ㉝
TV/VIDEO button*
DEMO (demonstration) button ㉞
VIDEO IN 3 jacks (video, audio L/R) ⓭ ⓰

**Top view**




** Note
You can listen to the TV's sound and control the power and volume with the supplied cordless headphones, within a distance of approx. 6 m (19.7 ft.). (KV-27XBR36)

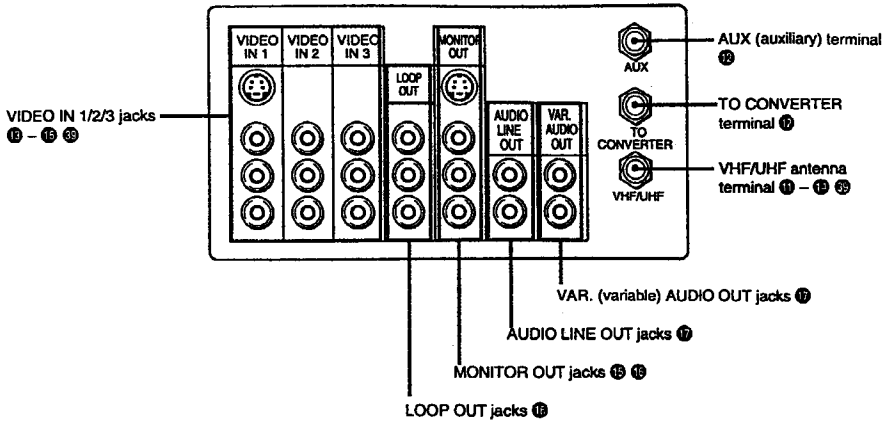
**Screen Displays**


On-screen menu displays
Main picture input mode/video label
Channel number display
SLEEP, MUTING display ⓬
Channel caption display ㉜
MTS (SAP) mode display ㉟
PIP (Picture-in-Picture) input mode display ㉞
Bar display for volume, picture or sound adjustment ㉛ ㉞ – ㊳ ㊼
Closed Caption display
CURRENT TIME displays
㉜ ㉞ – ㊱ ㊺ – ㊻

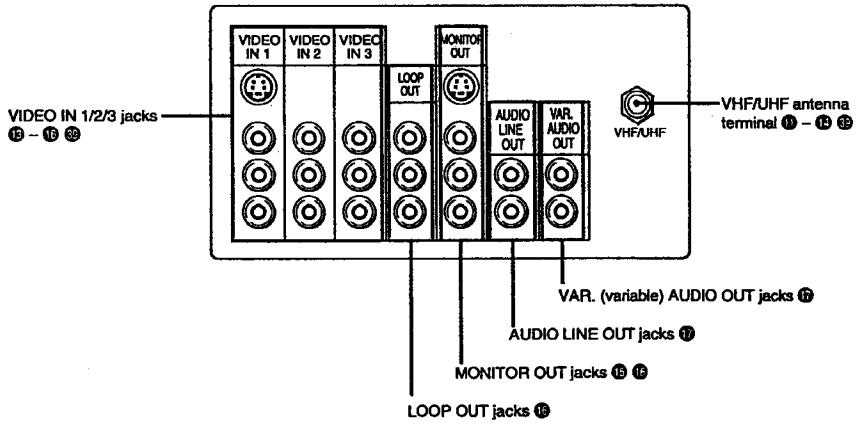
* Buttons with the same function are also located on the Remote Commander (p. 8).

**Rear**

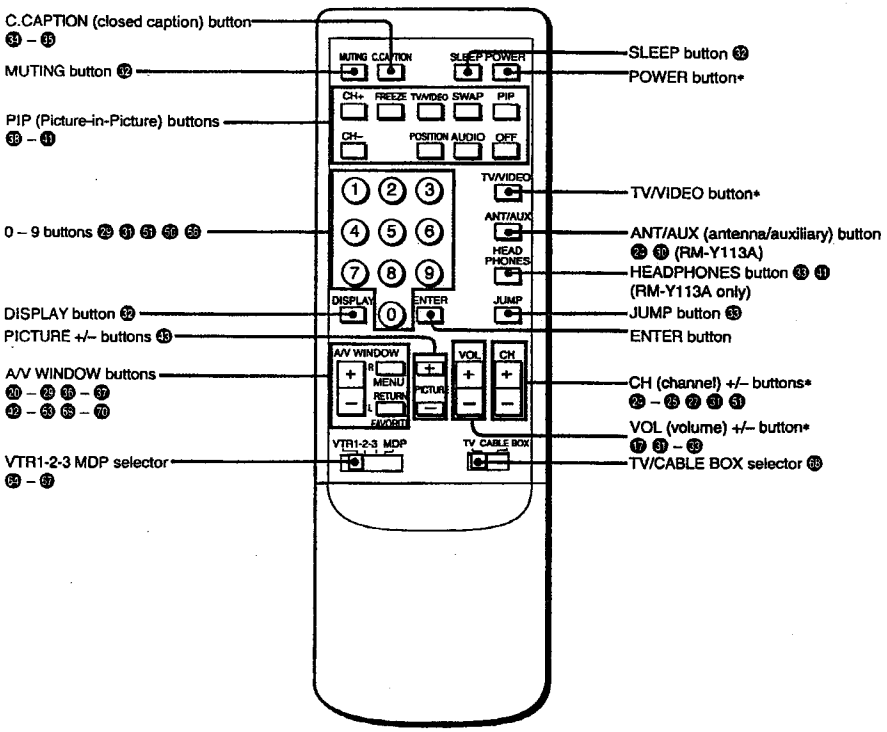
**KV-27XBR36**




**KV-27XBR26**



**Remote Commander** (with the video control cover closed)


C.CAPTION (closed caption) button ㉞ – ㊺
MUTING button ㉜
PIP (Picture-in-Picture) buttons ㊴ – ㊶
0 – 9 buttons ㉙ ㉛ ㊶ ㊴ ㊺
DISPLAY button ㊷
PICTURE +/– buttons ㊸
A/V WINDOW buttons ⑳ – ㉙ ㉟ – ㊲ ㊷ – ㊸ ㊺ – ㊵
VTR1-2-3 MDP selector ㊹ – ㊼
SLEEP button ㉜
POWER button*
TV/VIDEO button*
ANT/AUX (antenna/auxiliary) button ㉘ ㉚ (RM-Y113A)
HEADPHONES button ㊳ ㊶ (RM-Y113A only)
JUMP button ㊳
ENTER button
CH (channel) +/– buttons* ㉔ – ㉖ ㉗ ㉛ ㉝
VOL (volume) +/– button* ⑰ ㉛ – ㉝
TV/CABLE BOX selector ㊽
MUTING C.CAPTION SLEEP POWER
CH+ FREEZE TV/VIDEO SWAP PIP
CH– POSITION AUDIO OFF
TV/VIDEO
ANT/AUX
HEAD PHONES
DISPLAY ENTER JUMP
A/V WINDOW MENU RETURN FAVORITE PICTURE VOL CH
VTR1-2-3 MDP
TV CABLE BOX

RM-Y113A

**RM-Y113A: KV-27XBR36**
**RM-Y112A: KV-27XBR26**

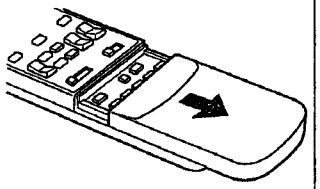
* Buttons with the same function are also located on the TV (p. 6).

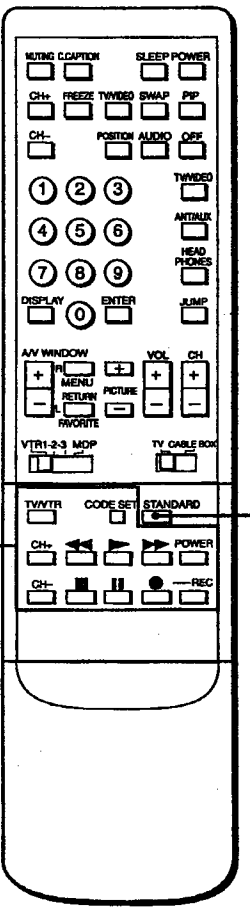
**Note**
If the TV/CABLE BOX selector is set to CABLE BOX, the Remote Commander is able to control a connected cable box, not the TV (p. 68). Set the selector to TV to control the TV with the Remote Commander.

**Remote Commander** (with the video control cover open)

**Opening the video control cover**

Slide the cover down.



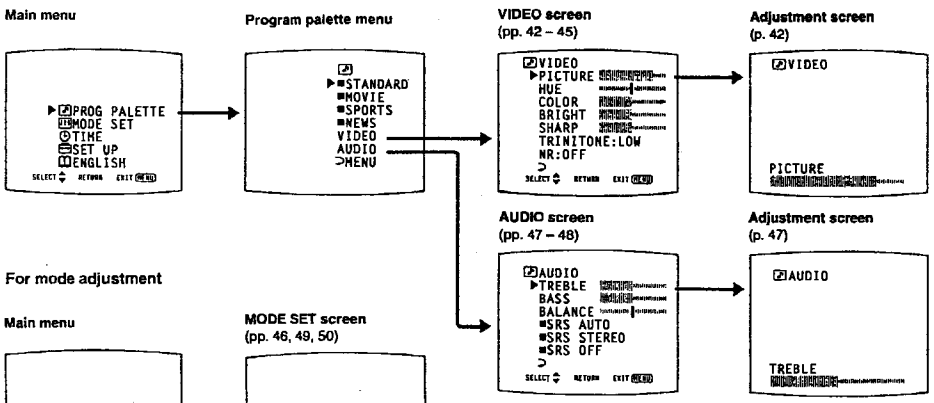



RM-Y113A

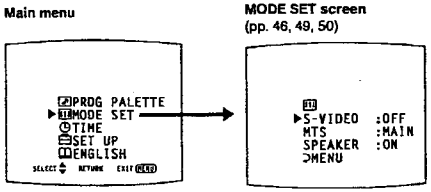
# Using the On-Screen Menus

The following flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings. See the indicated pages for instructions on using each feature.

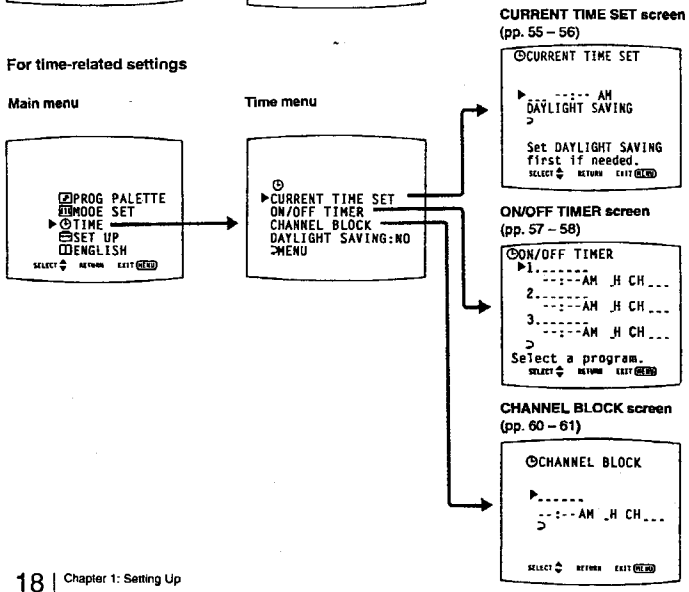
### For picture and sound quality adjustment



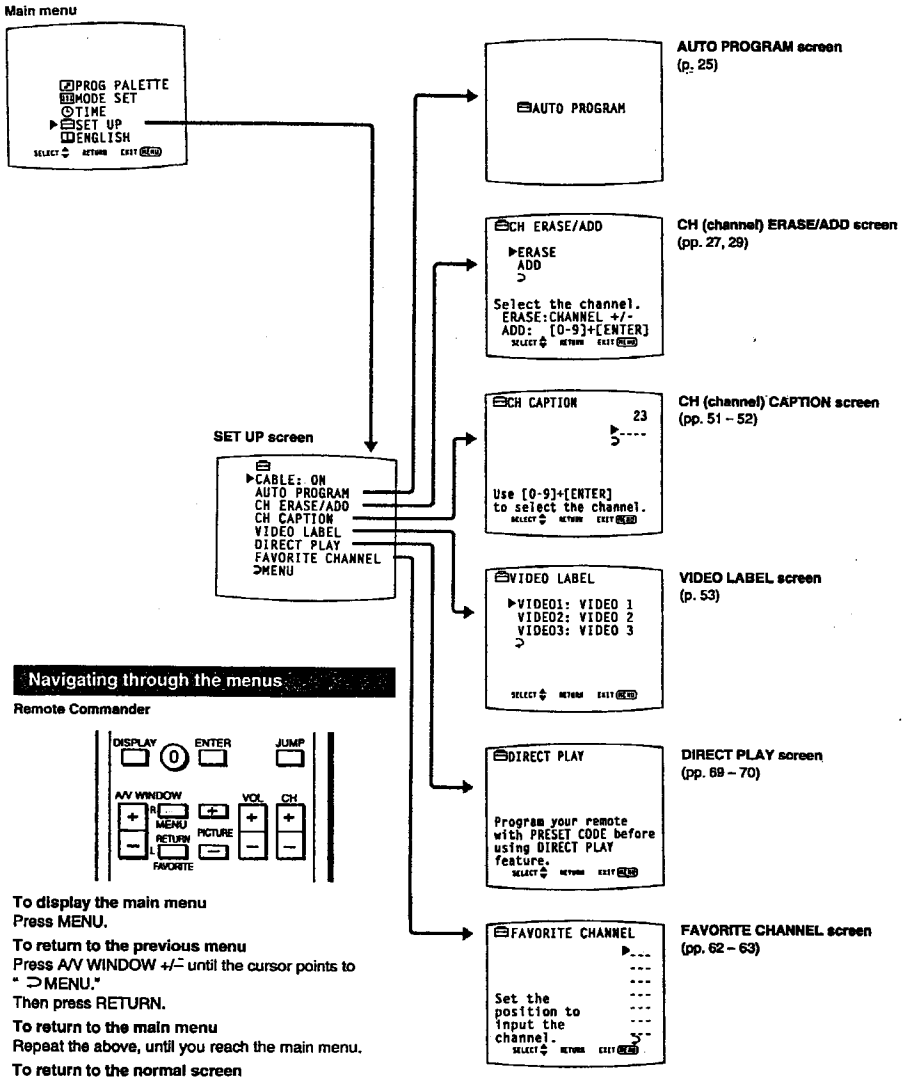

### For mode adjustment




### For time-related settings




### For presetting and other functions




## Navigating through the menus

**Remote Commander**



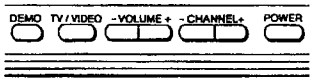

**To display the main menu**
Press MENU.

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "⊃MENU."
Then press RETURN.

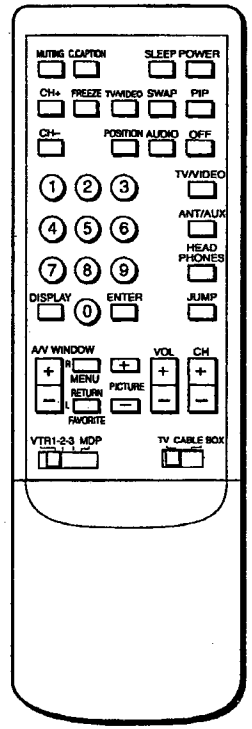
**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

Note
The menus disappear automatically, if you do not press a button within 90 seconds.




Front of TV

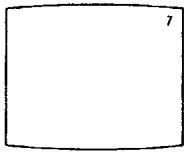



RM-Y113A

## Changing the menu language

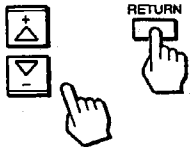
The menu language is factory-set to ENGLISH. Follow these instructions to change the menu language to Spanish or French, or back to English.

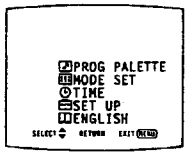
**1** Press POWER on the TV or on the Remote Commander to turn on the TV.
*The TIMER/STAND BY indicator flashes until the picture appears.*



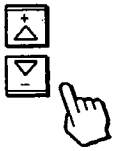

**2** Press MENU.
*The main menu appears.*

**3** Press A/V WINDOW +/– until the cursor points to "ENGLISH."
Then press RETURN.
*The language display turns red.*




**4** Press A/V WINDOW +/– to select the language.
*Each time you press A/V WINDOW +/–, the "ESPAÑOL," "FRANÇAIS" and "ENGLISH" menus appear.*



**Note**
Certain parts of the "ESPAÑOL" and "FRANÇAIS" menus remain in English.

**5** Press RETURN.
*The language is selected.*

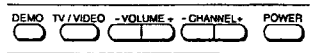
Spanish menu

**To return to the normal screen**
Press MENU on the Remote Commander.

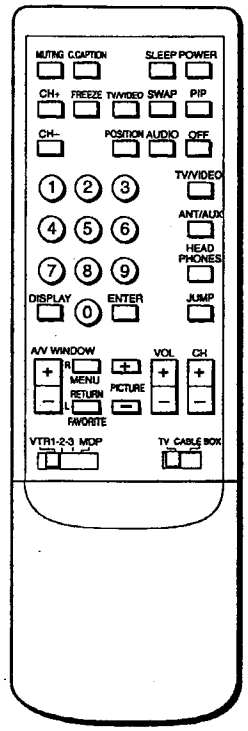
**Notes concerning menus**

- During PIP (Picture-In-Picture) mode, the on-screen menus may overlap the window picture.
- Screen displays (VOLUME, MUTING, CHANNEL, etc.) may overlap the on-screen menus.
- The menus disappear automatically, if you do not press a button within 90 seconds.

# Setting CABLE ON or OFF




Front of TV

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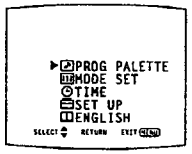
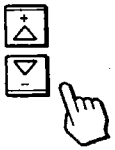
If you have cable connected to the TV, follow the steps below to set the cable connection on or off. Set CABLE OFF to preset or watch VHF or UHF channels, and set CABLE ON to preset or watch cable TV channels.

**Note**
If the TV is in video mode, the "CABLE" display is shaded and cannot be selected. Press TV/VIDEO on the TV or on the Remote Commander to change to TV mode.

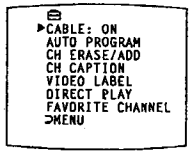
**1** Press MENU.
*The main menu appears.*



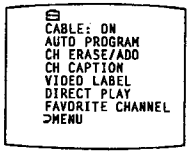

**2** Press A/V WINDOW +/– until the cursor points to "SET UP."



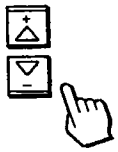
**3** Press RETURN.
*The set up menu appears, and the cursor points to "CABLE."*

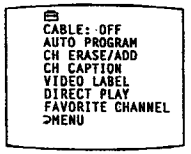



**4** Press RETURN again.
*The mode display turns red.*

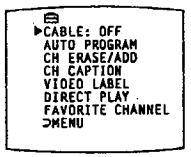



**5** Press A/V WINDOW +/– to select "ON" or "OFF."






**6** Press RETURN.
*The setting is complete.*




**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to " ⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

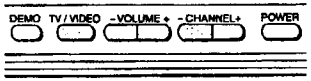
**Cable TV channel chart•**
Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

| Number on this TV | Corresponding CATV channel |
|---|---|
| 1 | A-8 |
| 5 | A-7 |
| 6 | A-6 |
| 14 | A |
| 15 | B |
| 16 | C |
| 17 | D |
| 18 | E |
| 19 | F |
| 20 | G |
| 21 | H |
| 22 | I |
| 23 | J |
| 24 | K |
| 25 | L |
| 26 | M |
| 27 | N |
| 28 | O |
| 29 | P |
| 30 | Q |
| 31 | R |
| 32 | S |
| 33 | T |
| 34 | U |
| 35 | V |
| 36 | W |
| 37 | W+1 |
| 38 | W+2 |
| 39 | W+3 |
| • • • • • | • • • • • |
| 93 | W+57 |
| 94 | W+58 |
| 95 | A–5 |
| 96 | A–4 |
| 97 | A–3 |
| 98 | A–2 |
| 99 | A–1 |
| 100 | W+59 |
| 101 | W+60 |
| 102 | W+61 |
| • • • • • | • • • • • |
| 123 | W+82 |
| 124 | W+83 |
| 125 | W+84 |

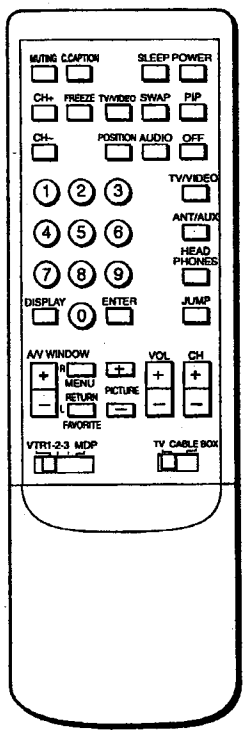
Check with your local cable TV company for more complete information on the available channels.
• The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

# Presetting TV Channels

By presetting TV channels to the TV, you can select channels by pressing CHANNEL +/– on the TV or CH +/– on the Remote Commander.




Front of TV

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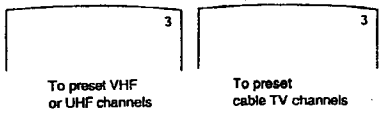
## Presetting all receivable channels automatically

Follow these instructions to preset all the receivable VHF, UHF or cable TV channels to the TV.

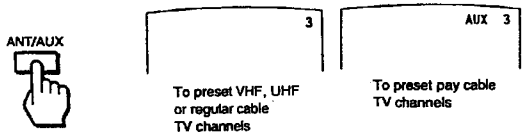
Notes

- If the TV is in video mode, the "AUTO PROGRAM" display is shaded and cannot be selected. Press TV/VIDEO on the TV or on the Remote Commander to change to TV mode.
- Perform auto programming during the day rather than late at night, when some channels may not be broadcasting.

**1** Set the cable connection on or off (pp. 22 – 23) to select the type of channel you want to preset, VHF/UHF or cable TV.




Press ANT/AUX to select the type of channel you want to preset, VHF/UHF/ regular cable TV or pay cable TV (KV-27XBR36/32XBR36/32XBR76 only).




**2** Press MENU.
*The main menu appears.*

**3** Press A/V WINDOW +/– until the cursor points to "SET UP."

**4** Press RETURN.
*The set up menu appears.*

**5** Press A/V WINDOW +/– until the cursor points to "AUTO PROGRAM."

**6** Press RETURN.

*"AUTO PROGRAM" appears on the screen and receivable channels (other than the channels already preset) are preset in numerical sequence. The channels previously preset will not remain in the TV's memory.*
*When no more channels are found, auto programming stops and the screen returns automatically to the set up menu.*

**7** Press CH +/– to check or view the preset channels.

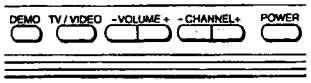
**Receivable channels for this TV**
VHF: 2 – 13
UHF: 14 – 69
Cable: 1 – 125

**To select TV channels without presetting**
Press the 0 – 9 buttons and ENTER.

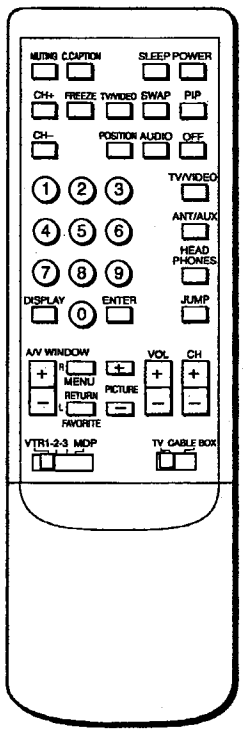
**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to " ⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.




Front of TV

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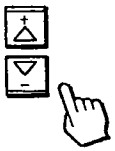
## Erasing TV channels

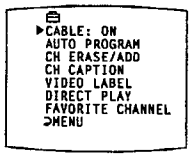
Follow these instructions to erase unnecessary TV channels, so that when you press CH +/–, the channel(s) are skipped.

**1** Press MENU
*The main menu appears.*

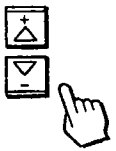
**2** Press A/V WINDOW +/– until the cursor points to "SET UP."

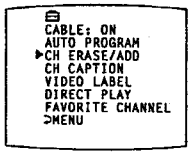


**3** Press RETURN
*The set up menu appears.*

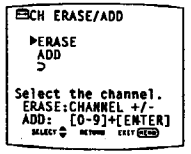



**4** Press A/V WINDOW +/– until the cursor points to "CH ERASE/ADD."

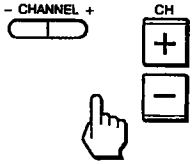


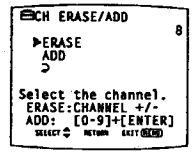



**5** Press RETURN.
*The CH ERASE/ADD screen appears, and the cursor points to "ERASE."*

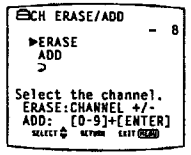



**6** Press CHANNEL +/– on the TV or CH +/– on the Remote Commander to select the channel you want to erase.
*The channel display appears.*




**7** Press RETURN.
*A "–" sign appears in front of the channel number display, indicating that the channel is erased; then the CH ERASE/ADD screen automatically reappears.*



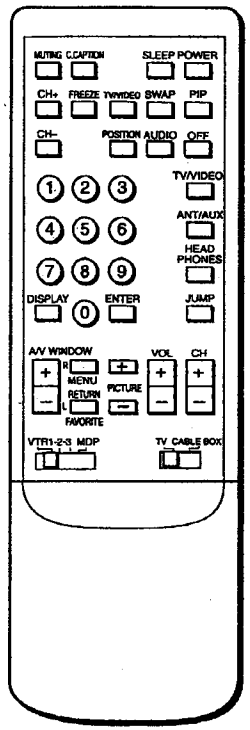

**To erase another channel**
Repeat steps 6 – 7.

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to " ⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

**Note**
If you erase a VHF or UHF channel, the same number cable TV channel is also erased (and vice versa).

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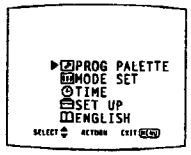
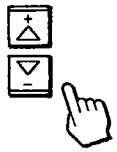
## Adding TV channels

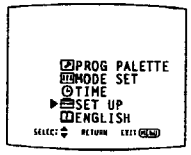
Follow these instructions to add TV channels one by one to the selection memory, or to replace a TV channel you previously erased (pp. 26 – 27).

**1** Press MENU
*The main menu appears.*

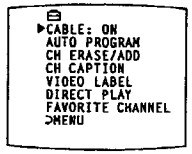



**2** Press A/V WINDOW +/– until the cursor points to "SET UP."

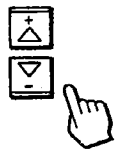


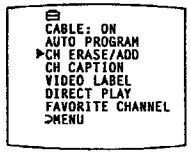



**3** Press RETURN.
*The set up menu appears.*

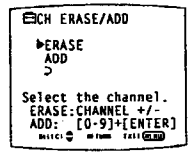



**4** Press A/V WINDOW +/– until the cursor points to "CH ERASE/ADD."

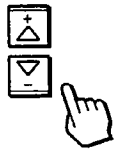


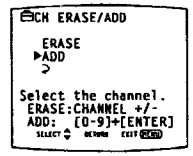



**5** Press RETURN.
*The CH ERASE/ADD screen appears.*

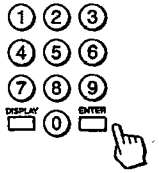


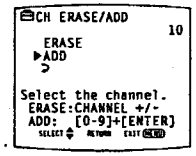

**6** Press A/V WINDOW +/– until the cursor points to "ADD."



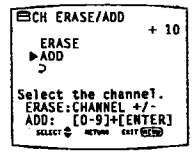



**7** Press 0 – 9 and ENTER on the Remote Commander to select the channel you want to add.
*The channel display appears.*




**8** Press RETURN
*A "+" sign appears in front of the channel number display, indicating that the channel is added; then the CH ERASE/ADD screen automatically reappears.*




**To add another channel**
Repeat steps 7 – 8.

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to " ↩ MENU."
Then press RETURN.

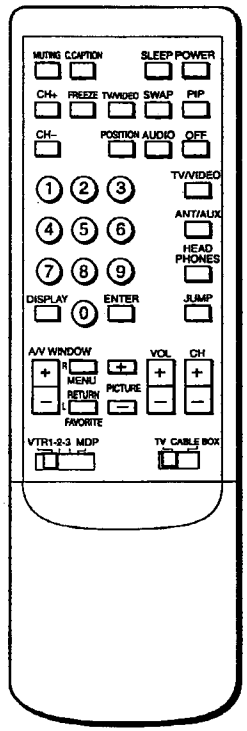
**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

**Note**
If you add a VHF or UHF channel, the same number cable TV channel is also added (and vice versa).

# Watching TV Programs

Front of TV

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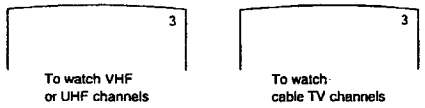
Make sure that the TV/CABLE BOX selector on the Remote Commander is set to TV, in order to control the TV with the Remote Commander.

**1** Press POWER on the TV or on the Remote Commander to turn on the TV.
*The TIMER/STAND BY indicator flashes until the picture appears.*

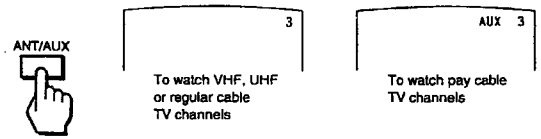
**2** Set the cable connection on or off (pp. 22 – 23) to select the type of channel you want to watch, VHF/UHF or cable TV.




To watch VHF or UHF channels

To watch cable TV channels

Press ANT/AUX to select the type of channel you want to watch, VHF/UHF/ regular cable TV or pay cable TV (KV-27XBR36/32XBR36/32XBR76 only).

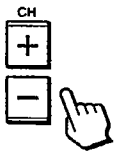



To watch VHF, UHF or regular cable TV channels

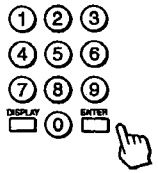
To watch pay cable TV channels

**3** Select a channel in one of the following two ways:

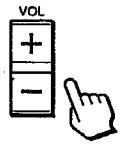
To scan the preset channels in numerical sequence, press CH +/–.




To select a channel directly, press 0 – 9 and then ENTER.
For example, to select channel 10, press 1, 0 and ENTER.




**4** Press VOL +/– to adjust the volume.



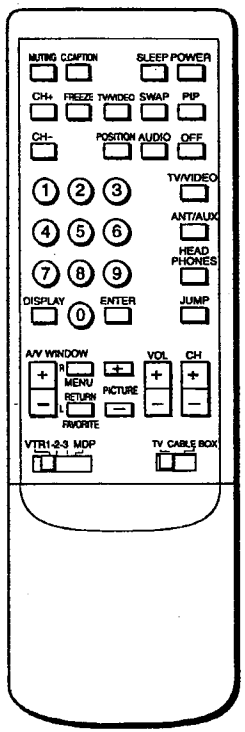
Press + to increase the volume.
Press – to decrease the volume.

**If VIDEO 1, VIDEO 2 or VIDEO 3 appears on the screen**
Press TV/VIDEO on the TV or on the Remote Commander until a TV channel number appears.

**To select channels more easily**
Set FAVORITE CHANNEL (pp. 62 – 63).

**To turn off the TV**
Press POWER on the TV or on the Remote Commander.

# Using Convenient Features

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## Muting the sound — MUTING

Press MUTING.
*"MUTING" appears on the screen.*

**To restore the sound**
Press MUTING again, or press VOL +.

## Keeping the displays on-screen — DISPLAY

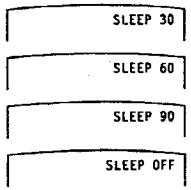
Press DISPLAY.
*All the existing displays appear: channel number, channel caption (if set), MTS mode ("SAP" only), window picture input mode, and the current time ("AM" or "PM" disappears after about three seconds).*

**To turn off the displays**
Press DISPLAY again.

## Setting the sleep timer — SLEEP

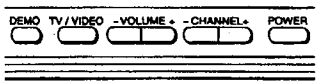
The sleep timer turns off the TV automatically after the amount of time you select.

Press SLEEP.
*Each time you press SLEEP, the time increments "30," "60," "90" and "OFF" mode appear in sequence.*

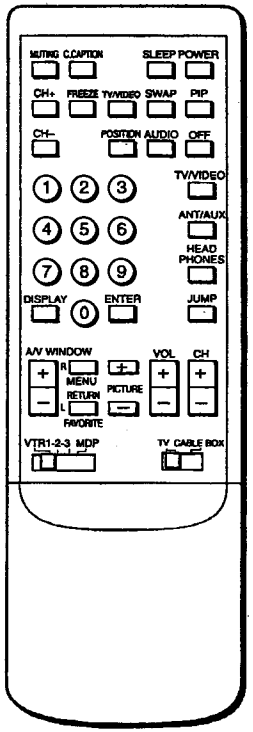



*A red "SLEEP" display appears about one minute before the TV goes off.*

**To cancel the setting.**
Press SLEEP until OFF mode appears.
*A green "SLEEP OFF" display appears for about three seconds.*
OR
Turn the TV off.
*The sleep timer setting is cancelled.*




Front of TV

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## Switching quickly between two channels — JUMP

Use this function to keep track of two programs alternately.

**To recall the channel you were watching previously**
Press JUMP.

**To switch back to the first channel**
Press JUMP again.

## Using the cordless headphones — HEADPHONES (KV-27XBR36/32XBR36 only)

Turning on the headphones does not affect the sound from the TV speakers. If you want to listen to the sound from the headphones only, turn off the TV speaker sound by pressing VOLUME – on the TV or VOL – on the Remote Commander.

**To turn on the headphones**
Press HEADPHONES.
*The ∩ display appears for about three seconds.*

**To control the headphones volume/**
**To turn the headphones power on or off**
Use the controls on the headphones.

**To turn off the headphones**
Press the headphones power button first, then press HEADPHONES.

**To use the headphones to listen to sound from a window picture (PIP function)**
See "Selecting the headphones audio source" (p. 41).

Notes
- When using the headphones, you cannot adjust sound quality or select sound modes (pp. 47 – 49) or use the muting feature (p. 32).
- After using the headphones, if you press HEADPHONES without pressing the headphones power button first, you may hear noise. This does not indicate a malfunction.
- To prevent hearing damage due to sudden or prolonged excessive volume, do not raise the headphones volume too high, while listening.

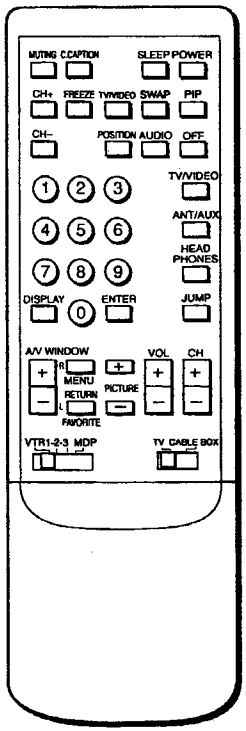
## Previewing the features — DEMO

Press DEMO.
*Functions and menus are displayed one by one.*

**To restart DEMO from the beginning**
Press DEMO again.

**To stop DEMO**
Press any button.

# Using Closed Caption

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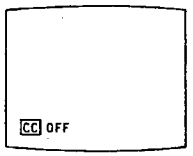
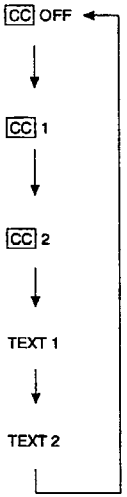
**1** Press C.CAPTION.

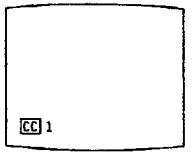
*The closed caption mode appears. CC1, CC2, TEXT1, TEXT2 or CC OFF appears in sequence each time you press C.CAPTION.*



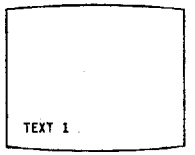




**2** Press C.CAPTION repeatedly.

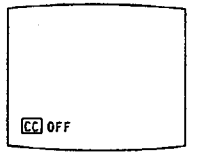
Select CC1 or CC2 to view Captions.
A Caption is a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs.)




Select TEXT1 or TEXT2 to view Text.
Text is information that is presented using the half to full television screen. It is usually not related to the program.



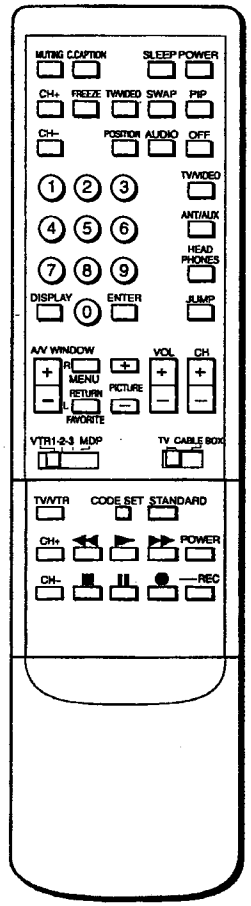

Select CC OFF if you don't want to view Closed Caption nor Text.



# Selecting a Picture and Sound Mode

This TV features four modes (STANDARD, MOVIE, SPORTS, NEWS) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

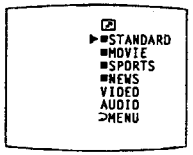
**Example:** Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater.



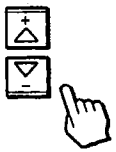

RM-Y113
(with video control cover open)

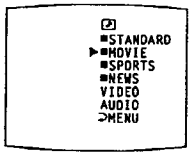
**1** Press MENU.
*The main menu appears, and the cursor points to "PROG PALETTE."*

**2** Press RETURN.
*The program palette menu appears.*

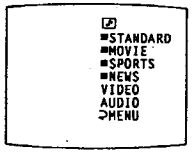



**3** Press A/V WINDOW +/– until the cursor points to "MOVIE."






**4** Press RETURN.
*The "MOVIE" display turns green, indicating that MOVIE mode is selected.*




**To select a different mode**
Repeat steps 3 – 4.

## Selecting standard mode (without using the menus)

Follow these instructions to select standard mode without using the on-screen menus.

Press STANDARD.

**When you select STANDARD mode**
You receive standard picture and sound quality. Any video or audio adjustments you made ("Adjusting the TV," pp. 42 – 50) are cancelled and the original factory settings are restored.

**When you select MOVIE mode**
You receive a finely detailed picture, and a theatrical audio effect.
To further adjust picture and sound qualities, follow the instructions on pp. 42 – 50.

**When you select SPORTS mode**
You receive a vivid, bright picture, and sound with a sports stadium effect.
To further adjust picture and sound qualities, follow the instructions on pp. 42 – 50.

**When you select NEWS mode**
Picture noise is reduced, and you receive clear voice reproduction.
To further adjust picture and sound qualities, follow the instructions on pp. 42 – 50.

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to " ⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

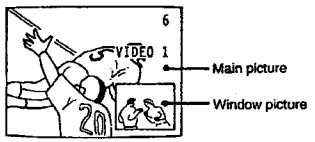
**To return to the normal screen**
Press MENU on the Remote Commander.

# Watching Two Pictures at Once (PIP)

You can watch both the main picture and a window picture simultaneously, using the Picture-in-Picture (PIP) function.

Models KV-27XBR36 are equipped with two-tuner PIP, allowing you to watch two TV channels at once.

Models KV-27XBR26 are equipped with one-tuner PIP. To watch two TV channels, you must first connect a VCR to the TV, to watch a second TV channel through the VCR tuner. (See "Connecting Other Equipment," pp. 13 – 14.)




**Picture-in-Picture special features**

When watching the main picture and a window picture, you can:

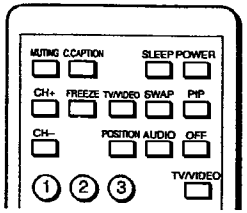
- Swap the main and window pictures (SWAP).
- Change the position of the window picture (POSITION).
- Display a still picture (FREEZE).
- Choose the sound from the main or window picture (AUDIO).
- Listen to the window picture sound through the supplied cordless headphones (HEADPHONES). (KV-27XBR36)

**Notes**

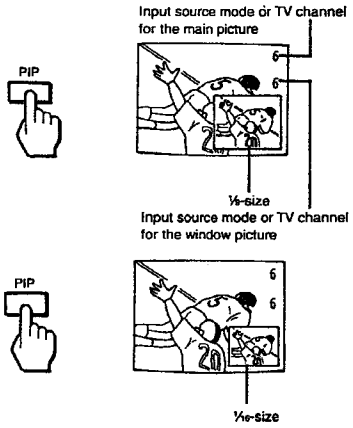
- The window picture sound is also output from the VAR. AUDIO OUT jacks. The AUDIO LINE OUT and MONITOR OUT jacks output the main picture sound only.
- The video label and channel caption will not appear with the window picture even if you have set them.
- If you select a blocked channel in the window picture, the display "BLOCKED" appears with the window picture. (See "Setting CHANNEL BLOCK," pp. 60 – 61.)

## Displaying a window picture

**Remote Commander**




Press PIP to display a window picture


Input source mode or TV channel for the main picture
PIP
1/9-size
Input source mode or TV channel for the window picture
PIP
1/16-size

*A window picture appears in the last mode you watched. Each time you press PIP, a 1/9 or 1/16 size window picture appears alternately.*

**To turn PIP function off**

Press OFF.

*The window picture disappears.*

**To receive the window picture sound**

Press AUDIO.

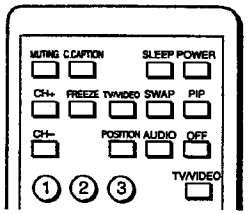
*The ♪ display appears for a few seconds, indicating that the window picture sound is being received.*

**To restore the main picture sound**

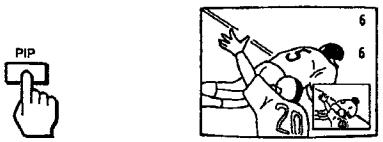
Press AUDIO again.

## Changing the window picture input mode

**Remote Commander**

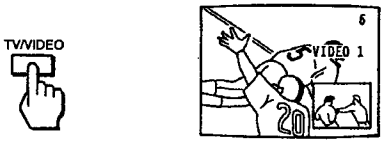



**1** Press PIP to display a window picture.




**2** Press TV/VIDEO in the Picture-in-Picture control area to select the input mode.

*Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.*

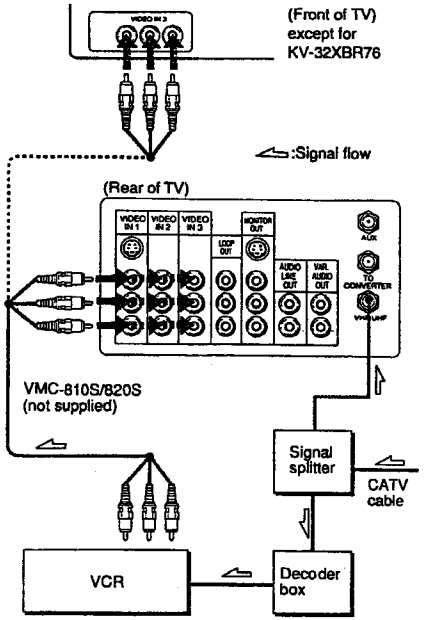



**To change TV channels in the window picture**

Press CH +/– in the PIP control area.

## Displaying CATV input as a window picture

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below.




After making the above connections, turn the cable connection on by following the steps on pp. 22 – 23; then continue with the steps below.

**1–2** Follow steps 1 – 2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR.

**3** Put your VCR on an inactive channel (channel 3 or 4).

**4** Change pay cable TV channels with the decoder box.

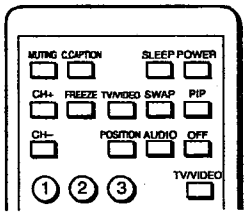
**To control your cable converter box with the supplied Remote Commander**

See p. 68.

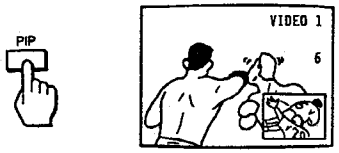
## Changing the position of the window picture

Follow these instructions to change the position of the window picture on the screen.

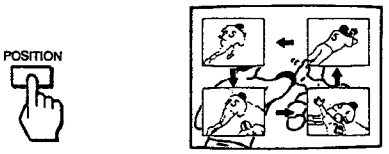
**Remote Commander**




**1** Press PIP to display a window picture.



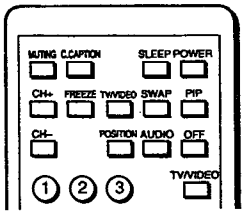

**2** Press POSITION.
*Each time you press POSITION, the window picture moves as illustrated.*



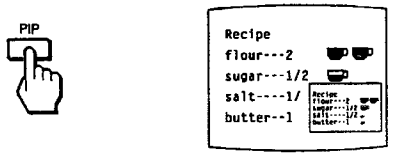

## Displaying a still picture

Use the FREEZE function to display a still picture. This function is useful when you want to write down a recipe from a cooking program, a displayed address or phone number and so on.

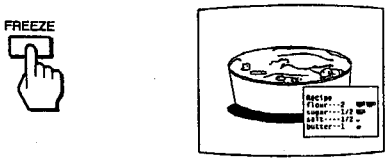
**Remote Commander**




**1** Press PIP to display a window picture.




**2** Press FREEZE.
*The window picture image remains still on the screen.*

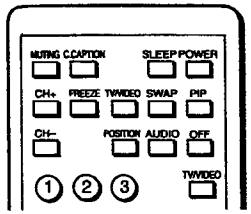



**To restore the normal picture**
Press FREEZE again.

## Swapping the main and window pictures

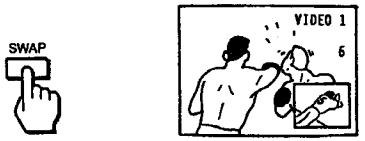
Follow these instructions to swap the input signals of the main and window pictures.

**Remote Commander**




**1** Press PIP to display a window picture.

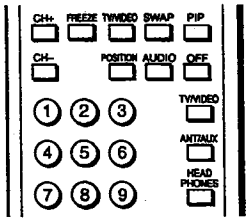
**2** Press SWAP.
*Each time you press SWAP, the images from the main and window pictures switch places.*



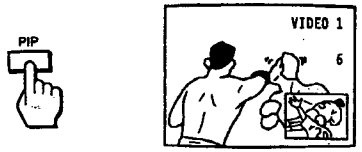

## Selecting the headphones audio source (KV-27XBR36/32XBR36 only)

Follow these instructions to select the audio source that you want to receive through the supplied cordless headphones (main or window picture). If you want to listen to sound from the window picture, make sure that the sound from the window picture is being received (p. 38).

**Remote Commander (RM-Y113A)**




**1** Press PIP to display a window picture.




**2** Press HEADPHONES.
*Each time you press HEADPHONES, the audio source changes to main picture, window picture and "OFF" in sequence.*
*The ∩ display appears with the input mode.*

**Notes**

- If you turn PIP function off, the sound from the cordless headphones changes to the main picture sound.
- If you turn off the TV, the next time you turn on the TV the headphones are off.

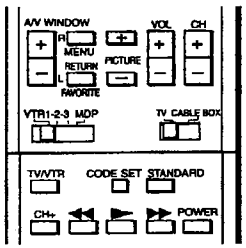
# Adjusting the TV

You can adjust the picture and sound for each input mode (TV, VIDEO 1, VIDEO 2, VIDEO 3) by pressing TV/VIDEO on the TV or on the Remote Commander to select the input mode, before making the adjustments. These adjustments are retained in memory even when you turn off the TV, but are cancelled after you change the adjustments, or select a picture and sound mode (pp. 36 – 37).

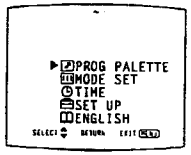
## Adjusting the picture

Follow these instructions to adjust PICTURE, HUE, COLOR, BRIGHT (brightness) and SHARP (sharpness).

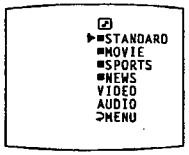
**Remote Commander (with video control cover open)**




**1** Press MENU.
*The main menu appears, and the cursor points to "PROG PALETTE."*

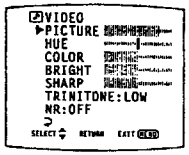



**2** Press RETURN.
*The program palette menu appears.*



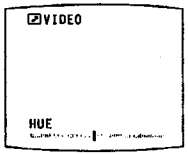

**3** Press A/V WINDOW +/– until the cursor points to "VIDEO."

**4** Press RETURN.
*The VIDEO screen appears.*




**5** Press A/V WINDOW +/– until the cursor points to the item you want to adjust.

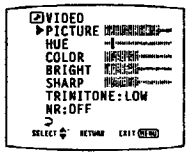
**6** Press RETURN.
*The adjustment screen appears.*




**7** Press A/V WINDOW +/– to make the adjustment.

| Picture quality | Press A/V WINDOW – | Press A/V WINDOW + |
|---|---|---|
| PICTURE | For decreased picture contrast with soft color | For increased picture with vivid color |
| HUE | Skin tones become purplish | Skin tones become greenish |
| COLOR | For less color intensity | For more color intensity |
| BRIGHT | For less brightness | For more brightness |
| SHARP | For less sharpness | For more sharpness |

**8** Press RETURN.
*The adjustment is complete, and the VIDEO screen automatically reappears.*




**To adjust other items**
Repeat steps 5 – 8.

**To restore the factory settings for all the items**
Select "STANDARD" on the program palette menu, and press RETURN;
or, press STANDARD on the Remote Commander.
*All the items, including TRINITONE (p. 44) and NR (p. 45) return to their original factory settings.*

**To adjust picture contrast**
You can also adjust picture contrast with the PICTURE +/– buttons on the Remote Commander.

Press + to increase picture contrast with vivid color.
Press – to decrease picture contrast with soft color.
*The picture adjustment screen appears.*

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "↩ MENU."
Then press RETURN.

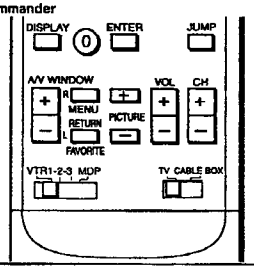
**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

## Setting the TRINITONE mode

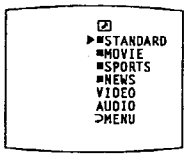
Color picture tubes are usually manufactured with a fixed color temperature (tint) that determines the "warmth" (red tint) or "coolness" (blue tint) of the picture. Use the Sony Trinitone feature to adjust the picture color to your preference.

**Remote Commander**



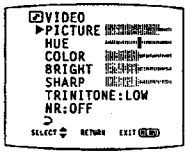

**1** Press MENU.
*The main menu appears, and the cursor points to "PROG PALETTE."*

**2** Press RETURN.
*The program palette menu appears.*




**3** Press A/V WINDOW +/– until the cursor points to "VIDEO."

**4** Press RETURN.
*The VIDEO screen appears.*




**5** Press A/V WINDOW +/– until the cursor points to "TRINITONE."

**6** Press RETURN.
*The mode display turns red.*

**7** Press A/V WINDOW +/– to select "HIGH" or "LOW."

Select "HIGH" to make the picture cool (bluish).
Select "LOW" to make the picture warm (reddish).

**8** Press RETURN.
*The setting is complete.*

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "⊃ MENU."
Then press RETURN.

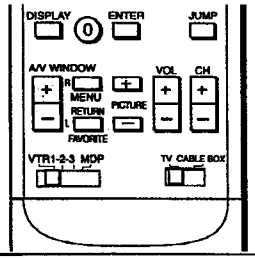
**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

## Setting NR (picture noise reduction) ON or OFF

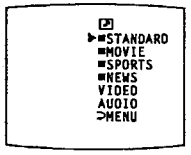
Follow these instructions to reduce picture noise.

**Remote Commander**



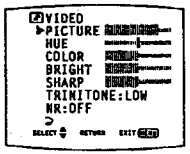

**1** Press MENU.
*The main menu appears, and the cursor points to "PROG PALETTE."*

**2** Press RETURN.
*The program palette menu appears.*

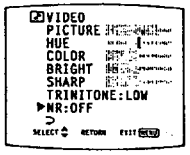



**3** Press A/V WINDOW +/– until the cursor points to "VIDEO."

**4** Press RETURN.
*The VIDEO screen appears.*




**5** Press A/V WINDOW +/– until the cursor points to "NR."




**6** Press RETURN.
*The mode display turns red.*

**7** Press A/V WINDOW +/– to select "ON" or "OFF."

Select "ON" to reduce picture noise.
Select "OFF" to restore the normal picture.

**8** Press RETURN.
*The setting is complete.*

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

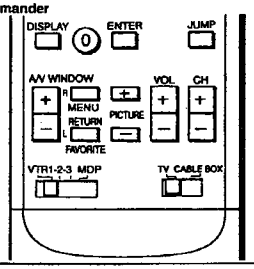
**To return to the normal screen**
Press MENU on the Remote Commander.

## Setting S-VIDEO ON or OFF

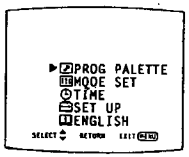
Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the TV. For instructions on connecting video equipment, see pp. 13 – 16.

**Note**
If the TV is in TV, VIDEO 2 or VIDEO 3 mode, the "S-VIDEO" display is shaded and cannot be selected.
Press TV/VIDEO on the TV or on the Remote Commander to change to VIDEO 1 mode.

**Remote Commander**

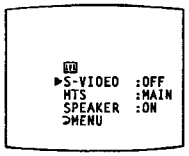



**1** Press MENU.
*The main menu appears.*




**2** Press A/V WINDOW +/– until the cursor points to "MODE SET."

**3** Press RETURN.
*The mode set menu appears, with the cursor pointing to "S-VIDEO."*




**4** Press RETURN.
*The mode display turns red.*

**5** Press A/V WINDOW +/– to select "ON" or "OFF."

**6** Press RETURN.
*The setting is complete.*

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "⮌ MENU."
Then press RETURN.

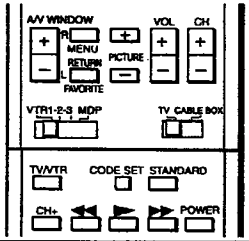
**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

## Adjusting the sound

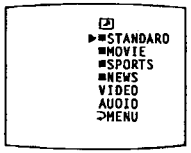
Follow these instructions to adjust the TREBLE, BASS and BALANCE.

**Remote Commander (with video control cover open)**



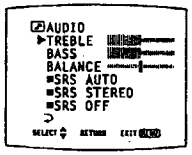

**1** Press MENU.
*The main menu appears, and the cursor points to "PROG PALETTE."*

**2** Press RETURN.
*The program palette menu appears.*



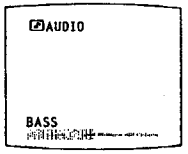

**3** Press A/V WINDOW +/– until the cursor points to "AUDIO."

**4** Press RETURN.
*The AUDIO screen appears.*




**5** Press A/V WINDOW +/– until the cursor points to the item you want to adjust.

**6** Press RETURN.
*The adjustment screen appears.*




**7** Press A/V WINDOW +/– to make the adjustment.

| Sound quality | Press A/V WINDOW – | Press A/V WINDOW + |
|---|---|---|
| TREBLE | To decrease the treble response | To increase the treble response |
| BASS | To decrease the bass response | To increase the bass response |
| BALANCE | To emphasize the left speaker's volume | To emphasize the right speaker's volume |

**8** Press RETURN.
*The adjustment is complete, and the AUDIO screen automatically reappears.*

**To adjust other items**
Repeat steps 5 – 9.

**To restore the factory settings for all the items**
Select "STANDARD" on the program palette menu, and press RETURN; or, press STANDARD on the Remote Commander.
*All the items, including SRS mode (p. 48) return to their original factory settings.*

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "⮌ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

## Selecting an SRS (Sound Retrieval System) mode

For lifelike sound reproduction, follow the instructions below to select the SRS mode you prefer.

In SRS AUTO mode, SRS functions in both monaural and stereo modes.

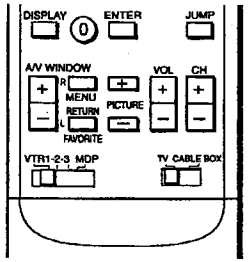
Monaural sound programs will have a 'simulated stereo' effect.

In SRS STEREO mode, SRS functions only when a stereo program is received.

*The STEREO indicator on the TV lights up whenever a stereo broadcast is received.*

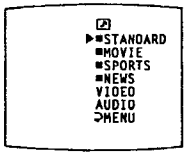
Select SRS OFF mode to return to normal sound mode.

**Remote Commander**




**1** Press MENU.
*The main menu appears, and the cursor points to "PROG PALETTE."*

**2** Press RETURN.
*The program palette menu appears.*




**3** Press A/V WINDOW +/– until the cursor points to "AUDIO."

**4** Press RETURN.
*The AUDIO screen appears.*

**5** Press A/V WINDOW +/– until the cursor points to the SRS mode you want.

**6** Press RETURN.
*The mode is selected.*

**To change the SRS mode**
Repeat steps 5 – 6.

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

## Selecting an MTS (Multichannel TV Sound) mode

Follow these instructions to select an MTS mode.

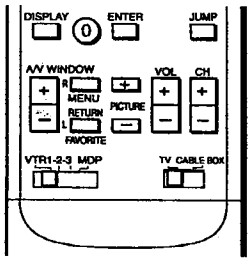
Select MAIN mode to listen to stereo sound.
*The STEREO indicator on the TV lights up whenever a stereo broadcast is received.*

Select SAP mode to listen to Second Audio Programs.

Select MONO mode to eliminate excessive noise during stereo broadcasts, caused by a weak incoming signal.

**Note**
If the TV is in video mode, the "MTS" display is shaded and cannot be selected.
Press TV/VIDEO on the TV or on the Remote Commander to change to TV mode.

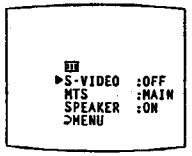
**Remote Commander**




**1** Press MENU.
*The main menu appears.*

**2** Press A/V WINDOW +/– until the cursor points to "MODE SET."

**3** Press RETURN.
*The mode set menu appears.*




**4** Press A/V WINDOW +/– until the cursor points to "MTS."

**5** Press RETURN.
*The mode display turns red.*

**6** Press A/V WINDOW +/– to select the mode you want.
*Each time you press A/V WINDOW +/–, "MAIN," "SAP" and "MONO" appear in sequence.*

**7** Press RETURN.
*The mode is selected.*

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "MENU."
Then press RETURN.

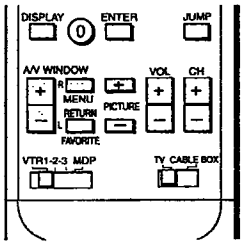
**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

## Setting SPEAKER ON or OFF

Follow these instructions to turn the TV speakers off when you connect an audio system (p.17), and on when you want to listen to the sound from the TV speakers.

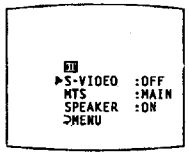
**Remote Commander**




**1** Press MENU.
*The main menu appears.*

**2** Press A/V WINDOW +/– until the cursor points to "MODE SET."

**3** Press RETURN.
*The mode set menu appears.*




**4** Press A/V WINDOW +/– until the cursor points to "SPEAKER."

**5** Press RETURN.
*The mode display turns red.*

**6** Press A/V WINDOW +/– to select "ON" or "OFF."

**7** Press RETURN.
*The setting is complete.*

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.



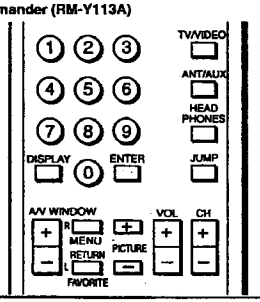


## Setting channel captions — CH CAPTION

Follow these instructions to caption each channel number display with a name, for instance, the television station call letters. (You can set up to four letters or numbers).

**Example:** Caption channel 15 as "NBC."

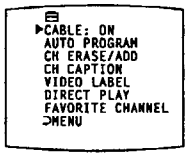
**Remote Commander (RM-Y113A)**




**1** Press MENU.
*The main menu appears.*

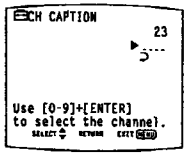
**2** Press A/V WINDOW +/– until the cursor points to "SET UP."

**3** Press RETURN.
*The set up menu appears.*

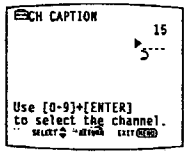



**4** Press A/V WINDOW +/– until the cursor points to "CH CAPTION."

**5** Press RETURN.
*The CH CAPTION screen appears.*

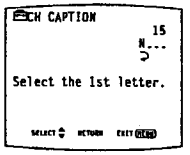



**6** Press CH +/–, or press 1, 5 and ENTER to set channel "15."




**7** Press RETURN.
*The first caption space turns red.*

**8** Press A/V WINDOW +/– to select "N."
*Each time you press A/V WINDOW +/–, "0" – "9," "A" – "Z," "&," "/," "-" and "_" (blank space) appear in sequence.*



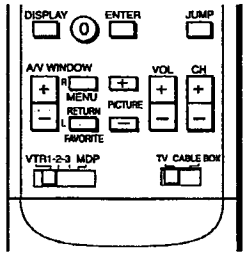

**9** Press RETURN.
*The second caption space turns red.*

(Continued)

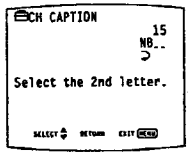
## Setting channel captions – CH CAPTION

(Cont'd from prev. page)

**Remote Commander**

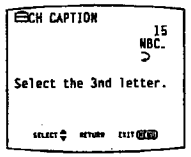



**10** Press A/V WINDOW +/– to select "B."



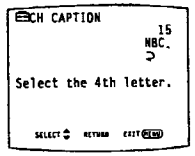

**11** Press RETURN.
*The third caption space turns red.*

**12** Press A/V WINDOW +/– to select "C."




**13** Press RETURN.
*The fourth caption space turns red.*

**14** Press A/V WINDOW +/– to select a blank space.




**15** Press RETURN.
*The setting is complete.*
*When you select or display the channel number, the channel caption also appears.*

**To caption more channels**
Repeat steps 6 – 15.

**To erase unnecessary captions**
Display the CH CAPTION screen, select the channel with the caption you want to erase, and select blank spaces for the channel caption; then press RETURN.
*The caption for that channel is erased.*

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to " ⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

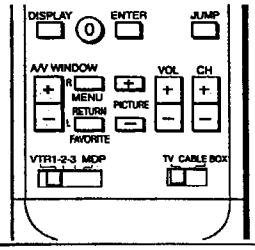
**Note**
You can set up to 32 channel captions. If the memory is full, "The memory is full, sorry" appears on the screen. Erase any unnecessary captions, and begin again.

## Setting VIDEO LABEL

Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

**Example:** Label VIDEO IN 1 as "VHS."

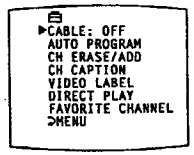
**Remote Commander**




**1** Press MENU.
*The main menu appears.*

**2** Press A/V WINDOW +/– until the cursor points to "SET UP."

**3** Press RETURN.
*The set up menu appears.*



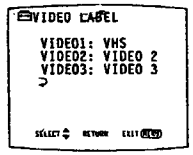

**4** Press A/V WINDOW +/– until the cursor points to "VIDEO LABEL."

**5** Press RETURN.
*The VIDEO LABEL screen appears.*

**6** Press A/V WINDOW +/– until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

**7** Press RETURN.
*The label display turns red.*

**8** Press A/V WINDOW +/– to select "VHS."




*Each time you press A/V WINDOW +/–, the label changes:*

**VIDEO 1**
VIDEO 1 → BETA → 8mm → VHS → LD → S-VIDEO

**VIDEO 2**
VIDEO 2 → BETA → 8mm → VHS → LD

**VIDEO 3**
VIDEO 3 → BETA → 8mm → VHS → LD

**9** Press RETURN.
*The setting is complete.*
*When you select or display the video mode, the video label appears.*

**To label other input modes**
Repeat steps 6 – 9.

**To change a label**
Same as above.

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to " ⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

# Using Timer-Activated Functions

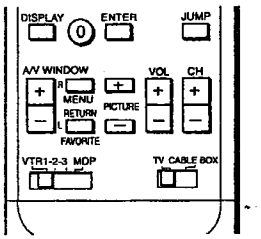
## Setting DAYLIGHT SAVING

If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the season, before setting the current time. At the next daylight savings date, you will be able to automatically adjust all the time-related settings (CURRENT TIME, ON/OFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT SAVING setting.

**When setting DAYLIGHT SAVING:**

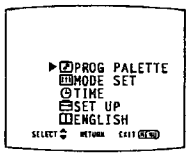
- **After the first Sunday in April (spring daylight savings)**
  Set to "YES" before setting the current time.
  Then, on the last Sunday in October (fall daylight savings), set to "NO."
  *All the time-related settings automatically move one hour back.*
- **After the last Sunday in October (fall daylight savings)**
  Set to "NO" before setting the current time.
  Then, on the first Sunday in April (spring daylight savings), set to "YES."
  *All the time-related settings automatically move one hour ahead.*

**Remote Commander**



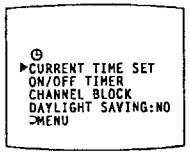

Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."

**1** Press MENU.
*The main menu appears.*




**2** Press A/V WINDOW +/– until the cursor points to "TIME."

**3** Press RETURN.
*The time menu appears.*




**4** Press A/V WINDOW +/– until the cursor points to "DAYLIGHT SAVING."

**5** Press RETURN.
*The mode display turns red.*

**6** Press A/V WINDOW +/– to select "YES" or "NO."

**7** Press RETURN.
*The setting is complete.*

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

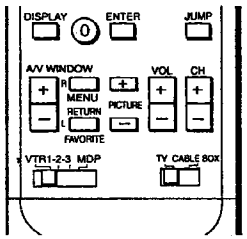
**To return to the normal screen**
Press MENU on the Remote Commander.

## Setting the clock — CURRENT TIME SET

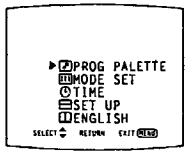
Follow these instructions to set the current time. The correct current time must be set in order to use the other time-related functions (DAYLIGHT SAVING, ON/OFF TIMER, CHANNEL BLOCK).

**Example:** Set the time to 3:15 PM, Monday.

**Remote Commander**

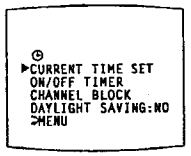



**1** Press MENU.
*The main menu appears.*




**2** Press A/V WINDOW +/– until the cursor points to "TIME."

**3** Press RETURN.
*The time menu appears, and the cursor points to "CURRENT TIME SET."*




**4** Press RETURN again.
*The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING.*

If you do not need to set DAYLIGHT SAVING, press RETURN and continue from step 5.

### To set daylight saving

**a** Press A/V WINDOW +/– until the cursor points to "DAYLIGHT SAVING."

**b** Press RETURN.
*The time menu appears, and the cursor points to "DAYLIGHT SAVING."*

**c** Press RETURN.

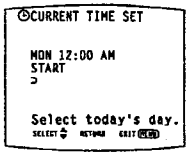
**d** Press A/V WINDOW +/– to select "YES" or "NO."

**e** Press RETURN.
*The setting is complete.*

To set the time, press A/V WINDOW +/– until the cursor points to "CURRENT TIME SET"; press RETURN, then continue from step 5.

**5** Press RETURN.
*The CURRENT TIME SET screen appears, and the "SUN" display appears (red).*

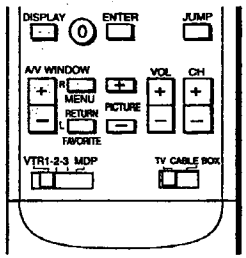
**6** Press A/V WINDOW +/– to select "MON."
*Each time you press A/V WINDOW +/–, the day changes consecutively.*




*(Continued)*

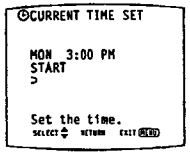
## Setting the clock — CURRENT TIME SET
*(Cont'd. from prev. page)*

**Remote Commander**



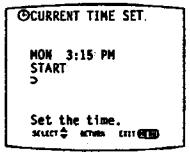

**7** Press RETURN.
*The hour and am/pm displays turn red.*

**8** Press A/V WINDOW +/– to set "3:00PM."
*Each time you press A/V WINDOW +/–, the hour changes in sequence beginning with "12:00AM."*




**9** Press RETURN.
*The minute display turns red.*

**10** Press A/V WINDOW +/– to select "15" (minutes).
*Each time you press A/V WINDOW +/–, the minutes change in sequence.*




**11** Press RETURN.
*The cursor points to "START."*

**12** Check the actual time, and press RETURN to start the clock.
*The setting is complete.*

**To reset the time**
Display the CURRENT TIME SET screen and repeat steps 5 – 12.

**To display the current time**
Press DISPLAY.

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to " ⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

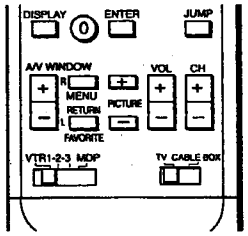
**To return to the normal screen**
Press MENU on the Remote Commander.

## Setting the ON/OFF TIMER

Follow these instructions to make the program of your choice appear on the screen at a specified time.

**Example:** Set the timer to turn on the TV every Monday through Friday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up to three programs.)

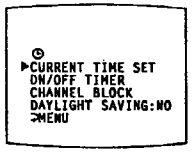
**Remote Commander**




**1** Press MENU.
*The main menu appears.*

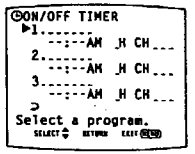
**2** Press A/V WINDOW +/– until the cursor points to "TIME."

**3** Press RETURN.
*The time menu appears.*



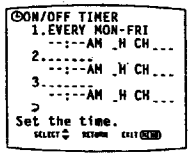

**4** Press A/V WINDOW +/– until the cursor points to "ON/OFF TIMER."

**5** Press RETURN.
*The ON/OFF TIMER screen appears, and the cursor points to "1."*

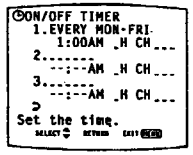



**6** To set program 1, press RETURN.
(To set program 2 or 3, press A/V WINDOW +/– until the cursor points to that program; then press RETURN.)
*The day input space turns red.*

**7** Press A/V WINDOW +/– to select "EVERY MON-FRI"; then press RETURN.
*Each time you press A/V WINDOW +/–, the days of the week change as shown in Fig. 1 (p. 59).*



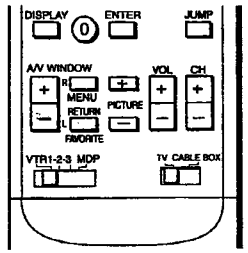

**8** Press A/V WINDOW +/– to select "1:00AM"; then press RETURN.
*Each time you press A/V WINDOW +/–, the hour changes in sequence.*




*(Continued)*

## Setting the ON-OFF TIMER *(Cont'd from prev. page)*

Remote Commander




**9** Press A/V WINDOW +/– to select "30" (minutes); then press RETURN.
*Each time you press A/V WINDOW +/–, the minutes change in sequence.*

```
ON/OFF TIMER
 1.EVERY MON-FRI
    1:30AM _H CH___
 2.-------
    --:--AM _H CH___
 3.-------
    --:--AM _H CH___
 ⊃
Set the duration.
SELECT  RETURN  EXIT
```

**10** Press A/V WINDOW +/– to select "3" (hour duration); then press RETURN.
*Each time you press A/V WINDOW +/–, the duration changes from "1" – "6" in sequence.*

```
ON/OFF TIMER
 1.EVERY MON-FRI
    1:30AM 3H CH___
 2.-------
    --:--AM _H CH___
 3.-------
    --:--AM _H CH___
 ⊃
Set the channel.
SELECT  RETURN  EXIT
```

**11** Press A/V WINDOW +/– to select "8" (channel); then press RETURN.
*The TIMER/STAND BY indicator lights, indicating that the setting is complete.*
*Each time you press A/V WINDOW +/–, the channel number changes from 1 – 125 in sequence.*

```
ON/OFF TIMER
 1.EVERY MON-FRI
    1:30AM 3H CH  8
▶2.-------
    --:--AM _H CH___
 3.-------
    --:--AM _H CH___
 ⊃
Select a program.
SELECT  RETURN  EXIT
```

*The display "TV WILL TURN OFF" appears on the screen one minute before the timer duration ends.*

**To set program 2 or 3.**
Press RETURN and repeat steps 6 – 11.

**To erase an ON/OFF TIMER setting**
Display the ON/OFF TIMER screen, select the setting you want to erase, and select a blank space for the day.
The ON/OFF TIMER setting is erased.

**To enter a new ON/OFF TIMER setting**
Display the ON/OFF TIMER screen and repeat steps 6 – 11.

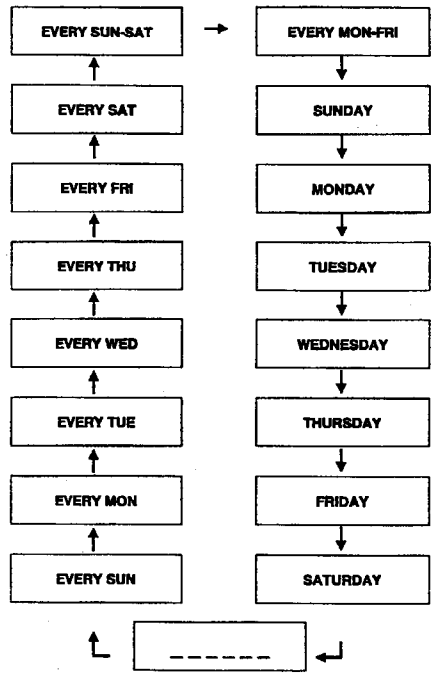
**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

**Note**
If you unplug the TV or a power failure occurs, both the clock and timer settings will be erased. Reset the current time; then set the timer.

**Fig. 1**
**Selecting the day(s) of the week**
When you press A/V WINDOW +, the days of the week appear in the following order:

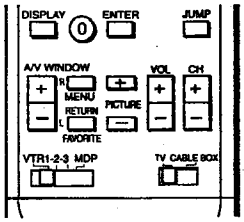


## Setting CHANNEL BLOCK

Follow these instructions to prevent a channel from appearing on the screen during the time that you specify. You can use this function to prevent children from watching unsuitable programs.

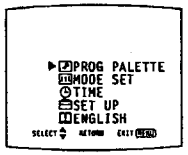
**Example:** Set CHANNEL BLOCK every Saturday at 4:30 PM for 1 hour, on Channel 12.

**Remote Commander**



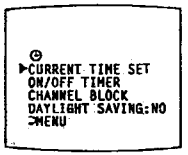

**Note**
If you have not set the current time, the "CHANNEL BLOCK" display is shaded and cannot be selected.

**1** Press MENU.
*The main menu appears.*



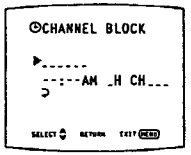

**2** Press A/V WINDOW +/– until the cursor points to "TIME."

**3** Press RETURN.
*The time menu appears.*



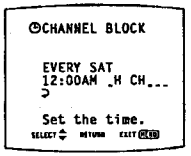

**4** Press A/V WINDOW +/– until the cursor points to "CHANNEL BLOCK."

**5** Press RETURN.
*The CHANNEL BLOCK screen appears, and the cursor points to the day input space.*



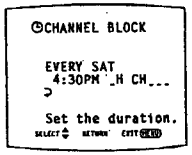

**6** Press RETURN.
*The day input space turns red.*

**7** Press A/V WINDOW +/– to select "EVERY SAT"; then press RETURN.
*Each time you press A/V WINDOW +/–, the days of the week change as shown in Fig. 1 (p. 59).*




**8** Press A/V WINDOW +/– to select "4:00PM"; then press RETURN.
*Each time you press A/V WINDOW +/–, the hour changes in sequence.*

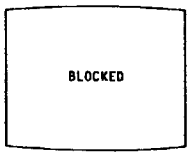
**9** Press A/V WINDOW +/– to select ":30" (minutes); then press RETURN.
*Each time you press A/V WINDOW +/–, the minutes change in sequence.*




**10** Press A/V WINDOW +/– to select "1" (hour duration); then press RETURN.
*Each time you press A/V WINDOW +/–, the duration changes from "1" – "6" in sequence.*

**11** Press A/V WINDOW +/– to select "12" (channel); then press RETURN.
*The setting is complete.*
*Each time you press A/V WINDOW +/–, the channel number changes from "1" – "125" in sequence.*

*At the specified time, "BLOCKED" appears in red on the screen, and the picture of the specified channel is blocked and the sound is muted.*




**To erase a CHANNEL BLOCK setting**
Display the CHANNEL BLOCK screen, select the setting you want to erase, and select a blank space for the day.
*The CHANNEL BLOCK setting is erased.*

**To enter a new CHANNEL BLOCK setting**
Display the CHANNEL BLOCK screen and repeat steps 4 – 10. (You can only set one CHANNEL BLOCK at a time.)

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "↩ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

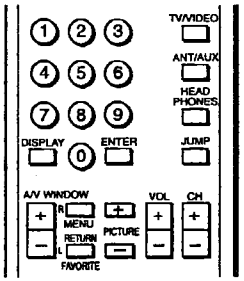
**To return to the normal screen**
Press MENU on the Remote Commander.

**Note**
If the ON/OFF TIMER is set for an overlapping time (pp. 57 – 59), the later time setting takes precedence. For example, if CHANNEL BLOCK is set for 2:00 PM and ON/OFF TIMER is set for 3:00 PM, ON/OFF TIMER will take effect at 3:00 PM.

# Setting FAVORITE CHANNEL

By setting FAVORITE CHANNEL, you can select the channels you use most frequently (up to seven channels) simply by pressing RETURN on the Remote Commander.

**Remote Commander (RM-Y113A)**

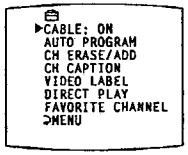



Follow these instructions to set the channels.

**1** Press MENU.
*The main menu appears.*

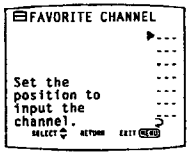
**2** Press A/V WINDOW +/– until the cursor points to "SET UP."

**3** Press RETURN.
*The set up menu appears.*



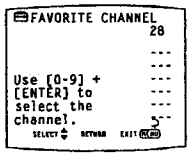

**4** Press A/V WINDOW +/– until the cursor points to "FAVORITE CHANNEL."

**5** Press RETURN.
*The FAVORITE CHANNEL screen appears, and the cursor points to the first channel position.*




**6** Press A/V WINDOW +/– to select the channel position; then press RETURN.

**7** Press 0 – 9 and ENTER to set the channel number.




**8** Press RETURN.
*The setting is complete.*

**To set other channels**
Repeat steps 6 – 8.

**To erase a favorite channel setting**
Press A/V WINDOW +/– until the cursor points to the channel number you want to erase; press RETURN, then press 0 and ENTER.

**To reset a favorite channel setting**
Display the FAVORITE CHANNEL screen and repeat steps 6 – 8.

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to " ⊃ MENU."
Then press RETURN.

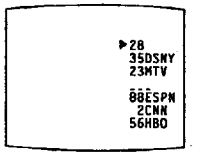
**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.

## Selecting a favorite channel

After setting the channels, follow these instructions to select the channel you want to watch.

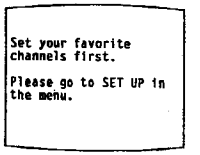
**1** Press RETURN.
*The FAVORITE CHANNEL display appears.*




**Note**
If you have set channel captions (pp. 51 – 52), the captions appear with the channel numbers.

**2** Press A/V WINDOW +/– to select the channel you want to watch; then press RETURN.
*The channel is selected.*

If you press RETURN on the Remote Commander before setting FAVORITE CHANNEL, this screen appears.




Follow steps 1 – 8 to set your favorite channels, and then make the selection.

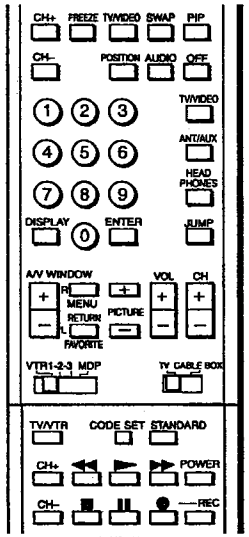
# Using the Pre-Programmed Remote Commander

You can operate other video equipment (such as VCRs, video disc players and cable boxes) that have an infrared remote detector with this supplied Remote Commander.

## Operating Sony video equipment

Follow these instructions to operate Sony video cassette recorders (Beta, 8 mm and VHS) and video disc players (including multi-disc players).

**Remote Commander (RM-Y113A)**
**(with video control cover open)**




**1** Set the VTR1-2-3 MDP selector according to the video equipment you want to operate.

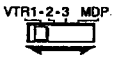



**Fig. 2: Video equipment settings**

| If you want to operate a: | set to: |
|---|---|
| Beta, ED Beta VCR | VTR 1 |
| 8 mm VCR | VTR 2 |
| VHS VCR | VTR 3 |
| Video disc player | MDP |

**2** Use the video operating buttons to control the connected equipment.

| Fig. 3: Operating a VCR (VTR1, 2, 3) | |
|---|---|
| To turn on or off | Press POWER. |
| To change channels (when watching TV programs through the VCR's tuner) | Press CH +/–. * |
| To record | Press ● and REC simultaneously. |
| To play | Press ▶. |
| To stop | Press ■. |
| To fast forward | Press ▶▶. |
| To rewind the tape | Press ◀◀. |
| To pause | Press ❚❚. *To resume normal playback, press again.* |
| To search the picture forward and backward | Keep pressing ▶▶ or ◀◀ during playback. *To resume normal playback, release the button.* |
| To change input mode | Press TV/VTR. |

| Fig. 4: Operating a Video Disc Player (MDP) | |
|---|---|
| To turn on or off | Press POWER. |
| To play | Press ▶. |
| To stop | Press ■. |
| To pause | Press ❚❚. *To resume normal playback, press again.* **Note** This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the TV goes off (standby mode) if you press ❚❚. |
| To search the picture forward and backward | Keep pressing ▶▶ or ◀◀ during playback. *To resume normal playback, release the button.* |

**Notes**

- If the video equipment does not have a certain function, the corresponding button on this Remote Commander will not operate.
- If you set another manufacturer's code to a VTR1-2-3 MDP selector position (pp. 66 – 67), you must also set the Sony code to operate Sony equipment.

**Caution**

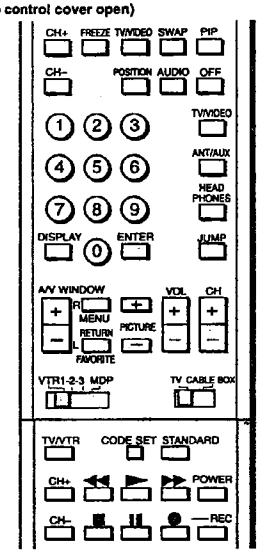
When you replace the batteries, do it within approximately 30 minutes. Otherwise the settings you made under the Pre-Programmed function (pp. 66 – 68) may be erased.

## Operating non-Sony or Sony video equipment

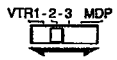
Follow these instructions to set the manufacturer's code, which will enable you to operate non-Sony and Sony video equipment with the pre-programmed Remote Commander.

**Example:** Operate an RCA video cassette recorder connected to the VIDEO IN 2 jacks.

**Remote Commander (RM-Y113A)**
**(with video control cover open)**




**1** Set the VTR1-2-3 MDP selector to VTR2.




**Note**
To use another manufacturer's equipment besides a Sony VCR, set the selector to a position not being used for your Sony video equipment.

**2** While pressing CODE SET, press 0, 7 and ENTER to set RCA's code number. (For manufacturer code numbers, see Figs. 5, 6 and 7 on p. 67.)

**3** Use the video operating buttons to operate the connected equipment. (see Fig. 3 on p. 64 and Fig. 4 on p. 65.)

**Fig. 5: VCR manufacturer code numbers**

| MANUFACTURER | CODE |
|---|---|
| SONY | 01, 02, 03 |
| CANON | 05 |
| EMERSON | 22, 30, 33 |
| FISHER | 10, 11, 12, 15 |
| FUNAI | 29 |
| GENERAL ELECTRIC | 05, 08 |
| GOLDSTAR | 25 |
| HITACHI | 07, 08, 36 |
| JVC | 16, 35 |
| MAGNAVOX | 05, 06, 09 |
| MITSUBISHI | 18, 19, 26, 27 |
| MULTITECH | 29 |
| NEC | 16, 23, 31 |
| PANASONIC | 05, 06 |
| PHILCO | 05, 06 |
| PHILIPS | 05, 06, 09 |
| QUASAR | 05, 06 |
| RCA | 07, 08 |
| SAMSUNG | 24, 32 |
| SANYO | 11, 15 |
| SCOTT | 21 |
| SHARP | 13, 14 |
| SHINTOM | 34 |
| SYLVANIA | 05, 06, 09 |
| SYMPHONIC | 29 |
| TEKNIKA | 28, 29 |
| TOSHIBA | 20, 21 |
| TOTE VISION | 25 |
| ZENITH | 17 |

**Fig. 6: MDP manufacturer code numbers**

| MANUFACTURER | CODE |
|---|---|
| SONY | 04 |
| KENWOOD | 58 |
| MAGNAVOX | 52 |
| MARANZ | 54 |
| MITSUBISHI | 51 |
| PANASONIC | 55 |
| PHILIPS | 52 |
| PIONEER | 51 |
| RCA | 51 |
| SANYO | 57 |
| SHARP | 56 |
| YAMAHA | 53 |

**Fig. 7: Sony Equipment and Code Numbers**

| SONY EQUIPMENT | CODE |
|---|---|
| Beta, ED Beta VCR | 01 |
| 8 mm VCR | 02 |
| VHS VCR | 03 |
| Video disc player | 04 |

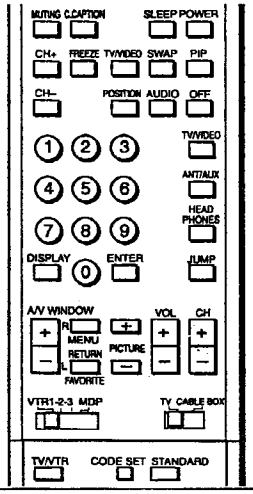
**Note**
In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Remote Commander. In this case, please use the equipment's own remote control unit.

## Operating a cable converter box

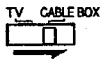
Follow these instructions to set the manufacturer's code, which will enable you to operate a connected cable converter box with the pre-programmed Remote Commander.

**Example:** Operate a connected Zenith cable converter box.

**Remote Commander (RM-Y113A)**
**(with video control cover open)**




**1** Set the TV/CABLE BOX selector to CABLE BOX.

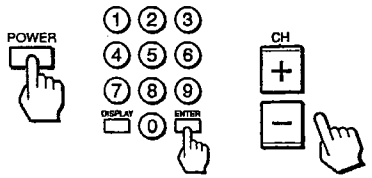



**Notes**

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this Remote Commander and you may not be able to operate your cable converter box with the supplied Remote Commander. In this case, use the equipment's own remote control unit.

**2** While pressing CODE SET, press 6 and 8 (Zenith's code number — see Fig. 8) and ENTER.

**3** Use the TV control buttons (POWER, 0 – 9, ENTER and CH +/–) to operate the cable converter box.




**To return to the normal screen**
Set the TV/CABLE BOX selector to TV; then use the TV control buttons to control the TV.

**For more details on operating the cable box**
Refer to the operating instructions that come with the cable box.

**Fig. 8: Cable box manufacturer code numbers**

| MANUFACTURER | CODE |
|---|---|
| JERROLD | 60, 61, 62, 63, 64, 65 |
| PIONEER | 69, 70 |
| SCIENTIFIC ATLANTA | 66, 67 |
| TOCOM | 71, 72 |
| ZENITH | 68 |

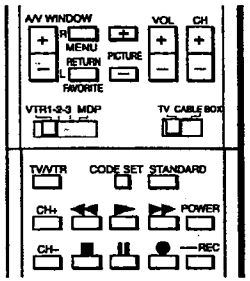
## Selecting a VCR mode directly — DIRECT PLAY

Follow these instructions to switch from TV to VCR mode by simply pressing the ▶ (playback) button on the supplied Remote Commander.

**Example:** Connect your VCR to the VIDEO IN 1 jacks, and set the VTR1-2-3 MDP selector to VTR2. When you press ▶, the input mode changes to the VCR connected to the VIDEO IN 1 jacks.

*After completing the steps below, the VTR selector position is retained in the TV's memory.*

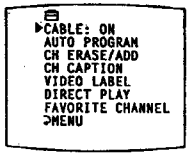
**Remote Commander (with video control cover open)**




**1** Press MENU.
*The main menu appears.*

**2** Press A/V WINDOW +/– until the cursor points to "SET UP."

**3** Press RETURN.
*The set up menu appears.*

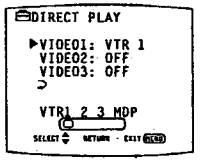



**4** Press A/V WINDOW +/– until the cursor points to "DIRECT PLAY."

**5** Press RETURN.
*A message screen appears.*

**Note**
This screen reminds you to set the manufacturer's code, if you have not already done so (pp. 66 – 67).

**6** Press RETURN again.
*The DIRECT PLAY screen appears.*




**7** Press A/V WINDOW +/– until the cursor points to the video input mode. (When the video equipment is connected to VIDEO IN 1, select "VIDEO1.")

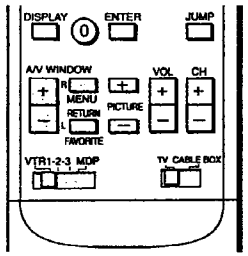
**8** Press RETURN.
*The mode display turns red.*

(Continued)

## Using the Pre-Programmed Remote Commander

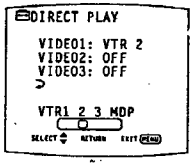
### Selecting a VCR mode directly – DIRECT PLAY
(Cont'd from prev. page)

**Remote Commander**




**9** Press A/V WINDOW +/– to select the VTR selector mode you have set on the Remote Commander. (When the VTR1-2-3 MDP selector is set to VTR2, select "VTR 2.")

*Each time you press A/V WINDOW +/–, "VTR 1," "VTR 2," "VTR 3," "MDP" and "OFF" appear in sequence.*




**10** Press RETURN.

*The direct play setting is complete.*

**To set direct play for other connected video equipment**
Repeat steps 7 – 10.

**To return to the previous menu**
Press A/V WINDOW +/– until the cursor points to "⊃ MENU."
Then press RETURN.

**To return to the main menu**
Repeat the above, until you reach the main menu.

**To return to the normal screen**
Press MENU on the Remote Commander.





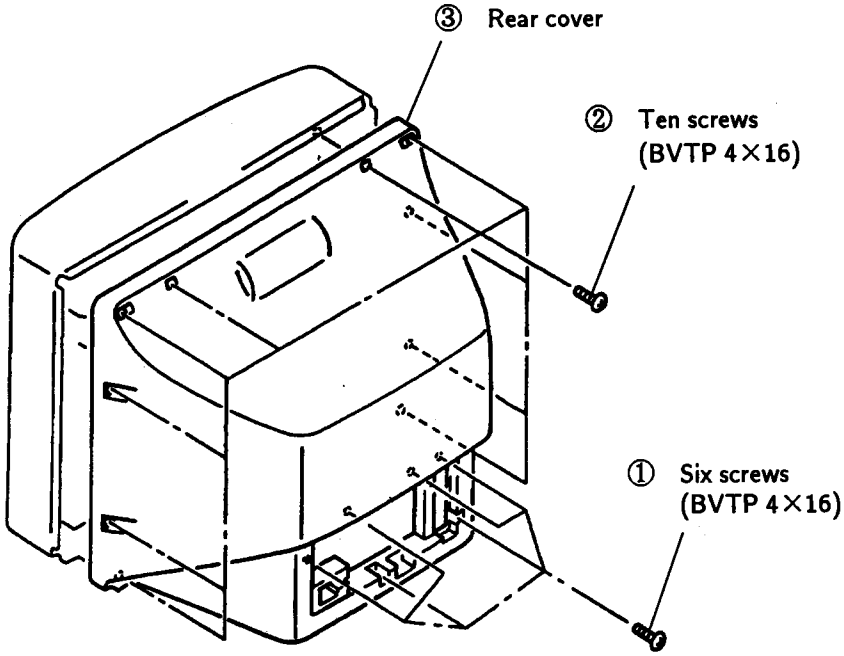
## *Appendix*
# Troubleshooting

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

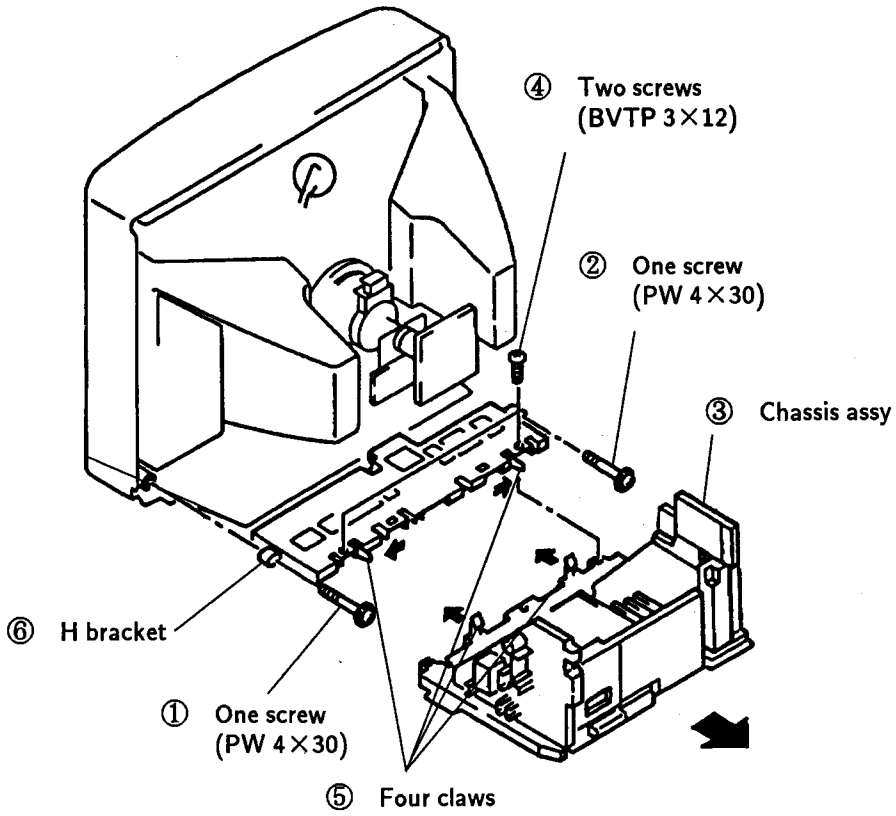
| Symptom | Possible causes and remedies |
|---|---|
| No picture (screen not lit), no sound | • Make sure POWER is switched on.<br>• Check the power cord connection.<br>• Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly.<br>• Make sure that the TV/CABLE BOX selector is set to TV. |
| Poor or no picture (screen not lit), good sound | • Adjust the picture using the VIDEO screen (pp. 42 – 45).<br>• Check the antenna/cable connections. |
| Good picture, no sound | • Press VOLUME + on the TV or VOL + on the Remote Commander.<br>• Press MUTING on the Remote Commander.<br>• Check the MTS setting (p. 49).<br>• Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly.<br>• Make sure SPEAKER is set to ON (p. 50). |
| No color for color programs | • Check the HUE and COLOR settings (pp. 42 – 43). |
| Snow and noise only | • Check that it is an active or correct channel.<br>• Check the cable setting.<br>• Check the ANT/AUX button setting (KV-27XBR36/32XBR36/32XBR76 only).<br>• Check antenna/cable connections. |
| Dotted lines or stripes | This is often caused by local interference (for example, cars, neon signs and hairdryers). Adjust the telescopic aerial for minimum interference. |
| Double images or ghosts | Reflections from nearby mountains or buildings often cause this problem. Connecting a highly directional outdoor antenna or a CATV cable may improve the picture. |
| **Try another channel.** It could be station trouble. | |

# SECTION 2
# DISASSEMBLY

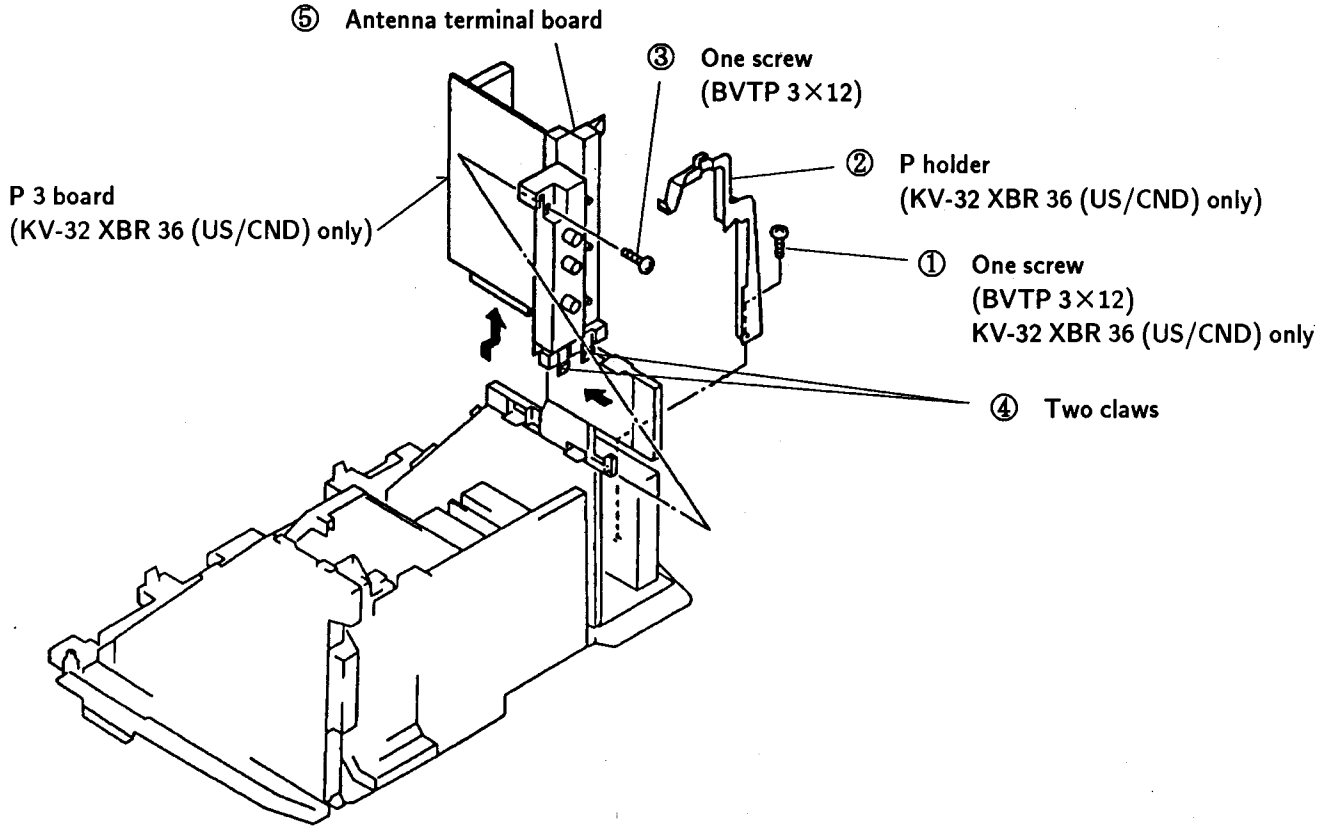
## 2-1. REAR COVER REMOVAL



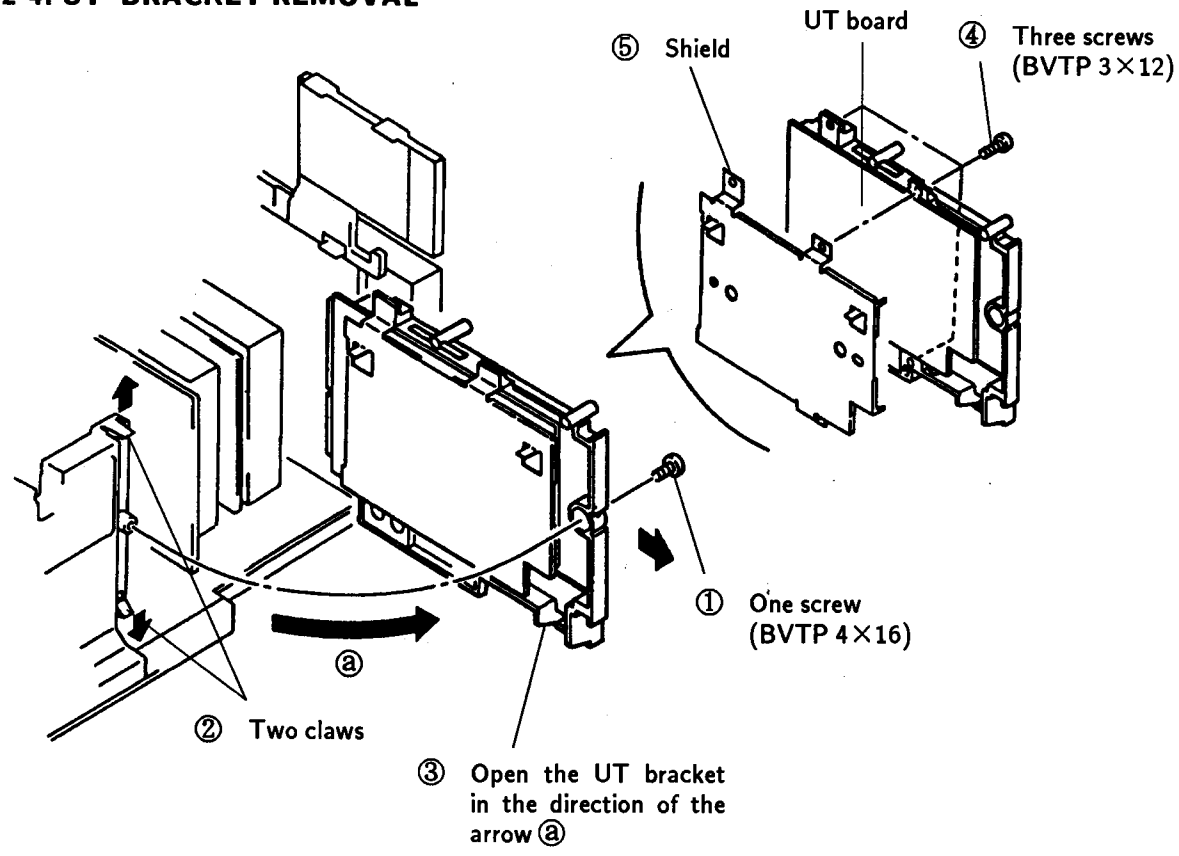

## 2-2. CHASSIS ASSY AND H BRACKET REMOVAL



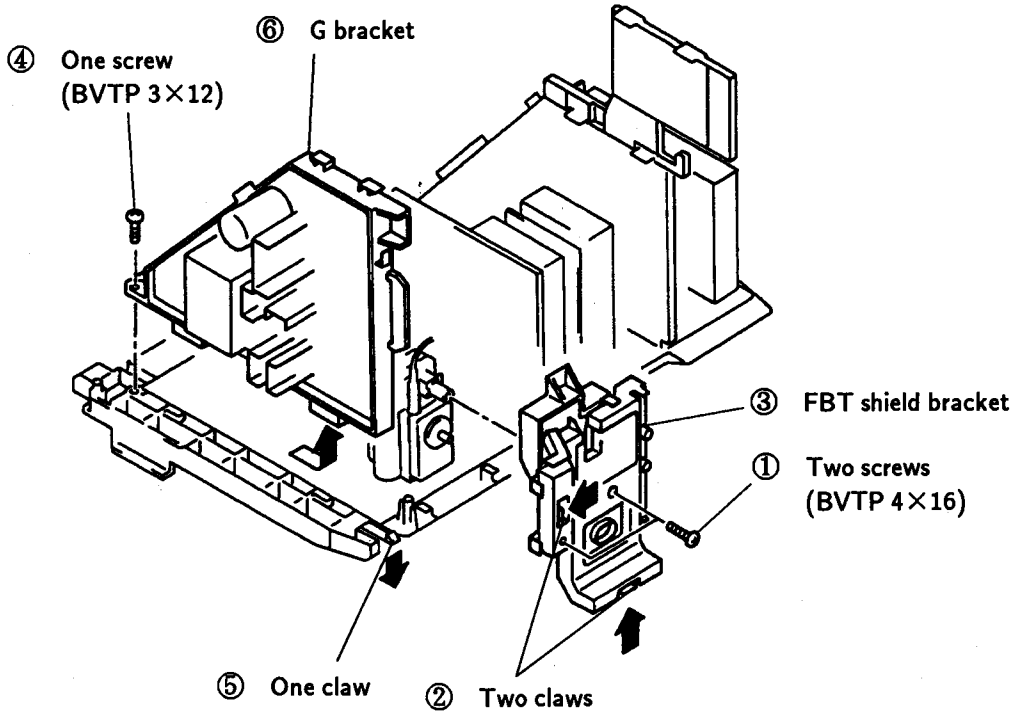
## 2-3. ANTENNA TERMINAL BOARD REMOVAL



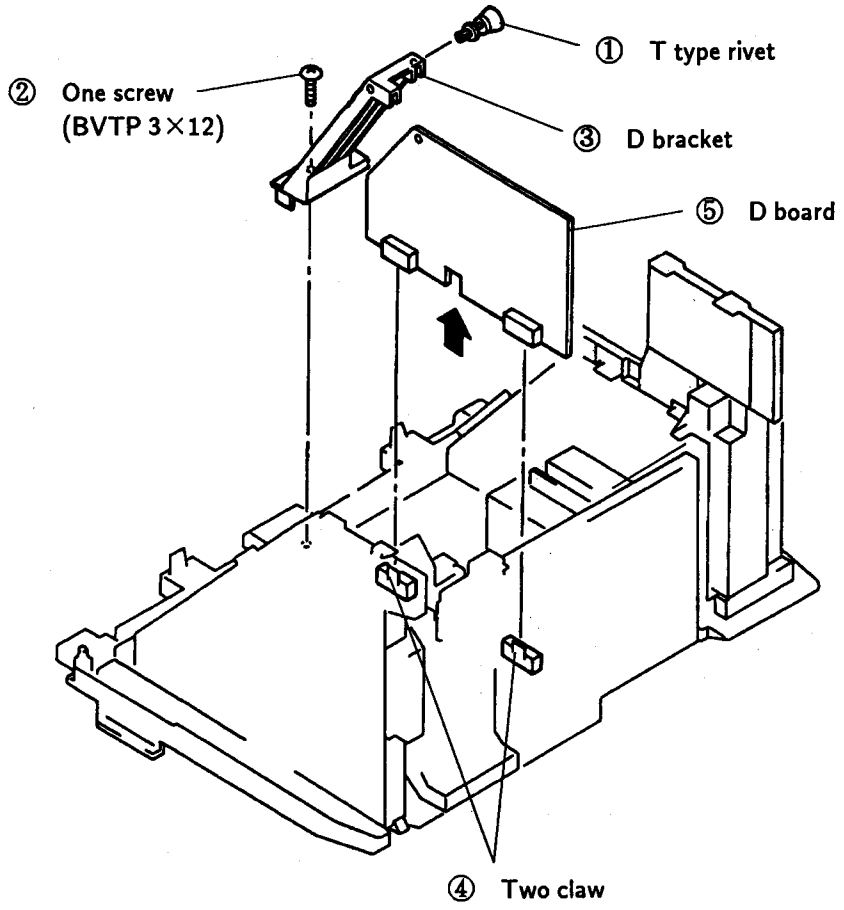

## 2-4. UT BRACKET REMOVAL



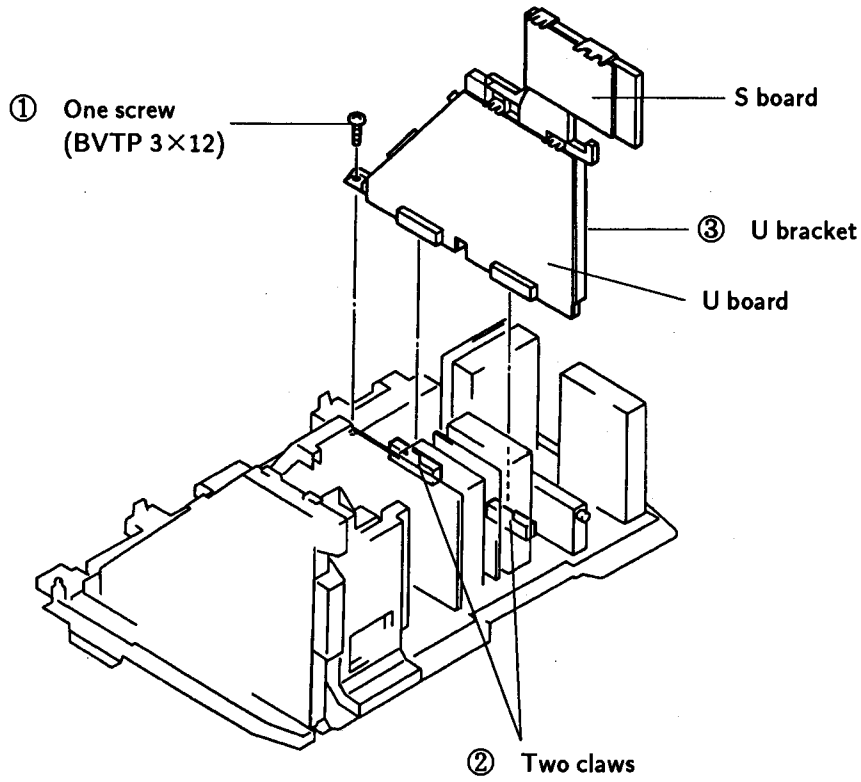
## 2-5. G BRACKET REMOVAL



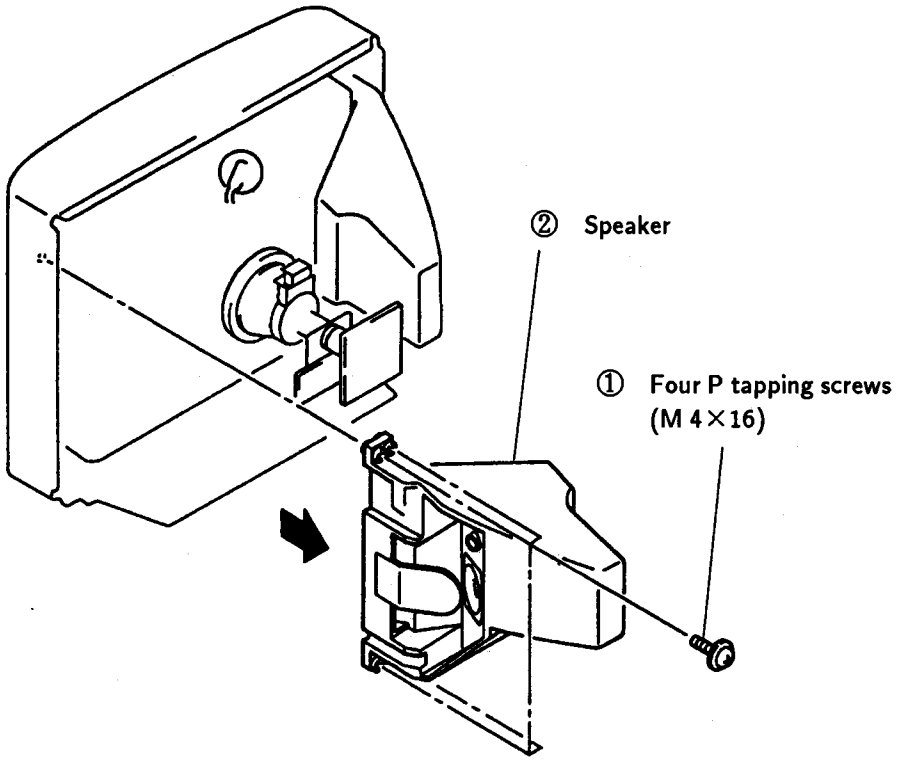

## 2-6. D BOARD REMOVAL



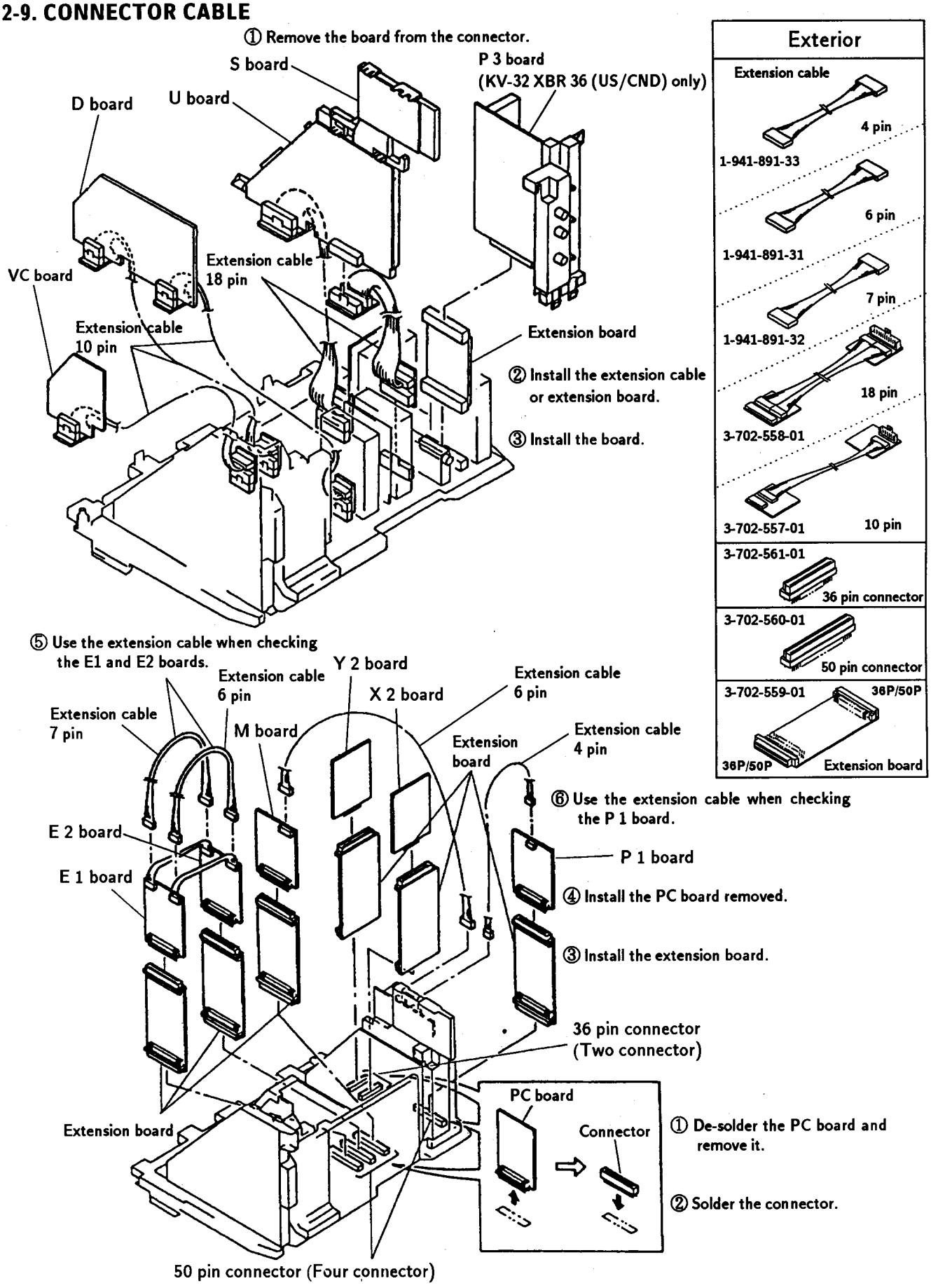
## 2-7. U BRACKET REMOVAL



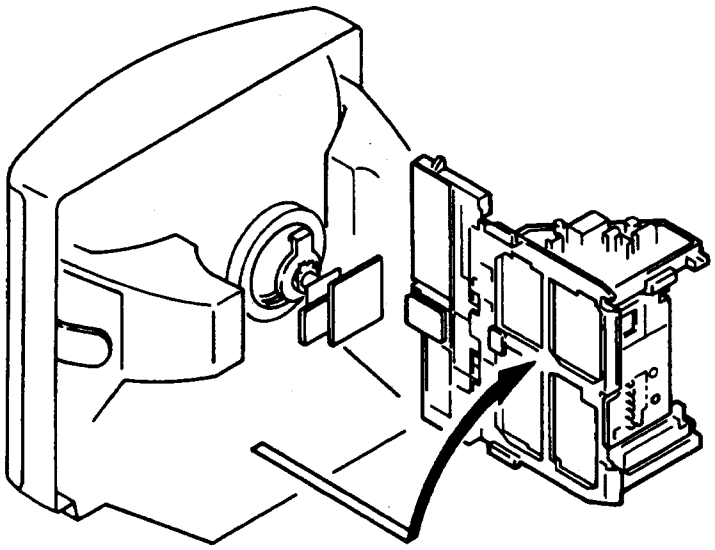

## 2-8. SPEAKER REMOVAL



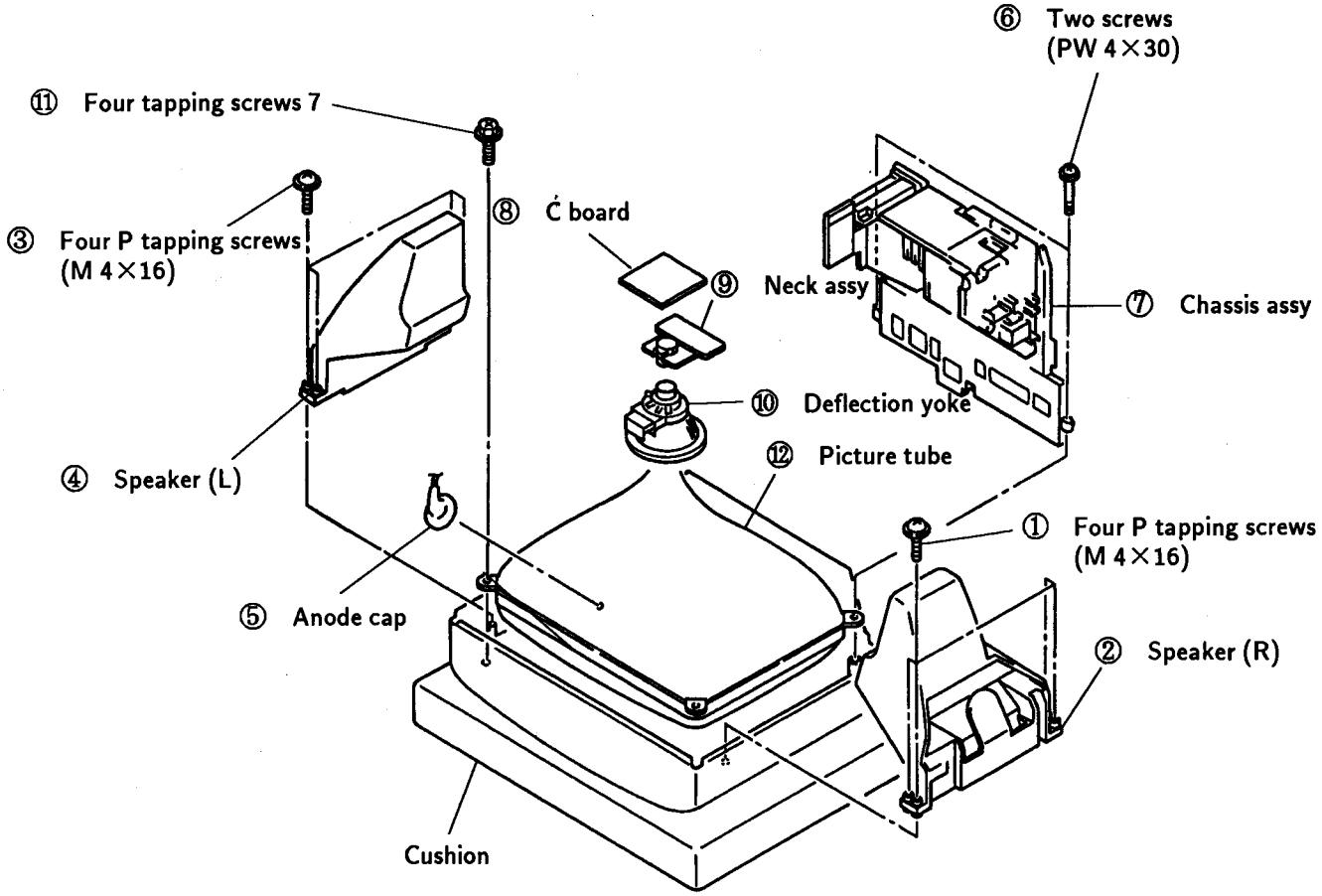
## 2-9. CONNECTOR CABLE



## 2-10. SERVICE POSITION



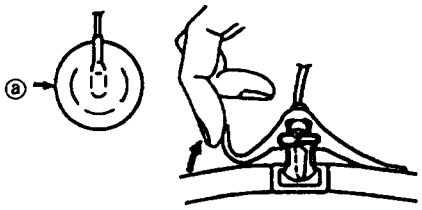
## 2-11. PICTURE TUBE REMOVAL



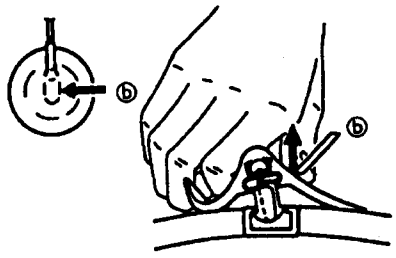

### • REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

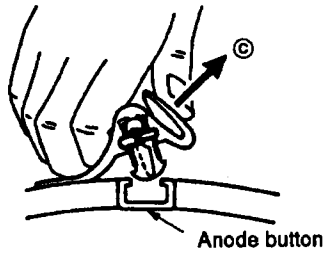
### • REMOVING PROCEDURES




① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.




② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



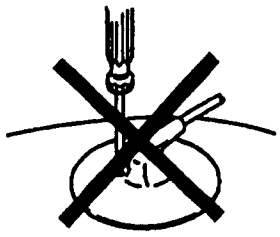

③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

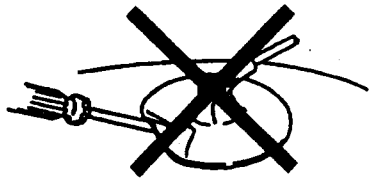
### • HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





## 2-12. REPAIR OF CHIP COMPONENT CIRCUIT BOARD

### 2-12-1. POINTS OF COMPONENT REMOVAL

**Handing of blower type soldering iron**

If hot blast is too strong or applied from a slanting direction, small components and solder near the component being removed can be blown off. Do not use blower type without temperature control.

### 2-12-2. NOTES ON SOLDERING FOR CHIP COMPONENTS

1) During soldering a chip component, if a soldering iron is applied for a long time, the heat may damage the component or cause pattern peeling.
2) Do not reuse a removed component. The characteristics of such a component may deteriorate.
3) Use wire solder containing silver (∅0.3 or ∅0.6). (The pin electrodes of the laminated chip capacitor are silver +palladium, so if wire solder which does not contain silver is used, the silver of the pin electrode will be sucked into the solder.)

### 2-12-3. REMOVAL AND MOUNTING OF COMPONENTS

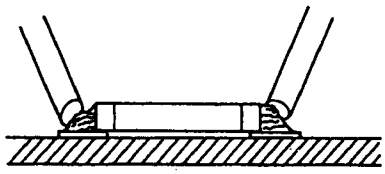
**Chip resistor and chip capacitor**

REMOVAL

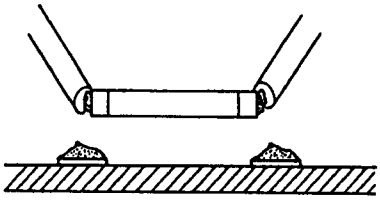
• Using two soldering irons

1) Mounted state

2)Melt the solder.

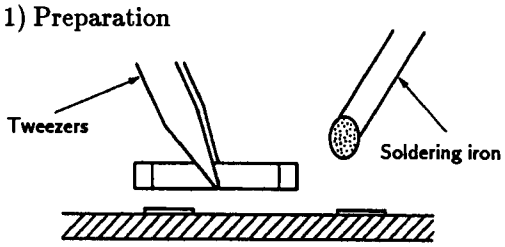


3)Remove the component.

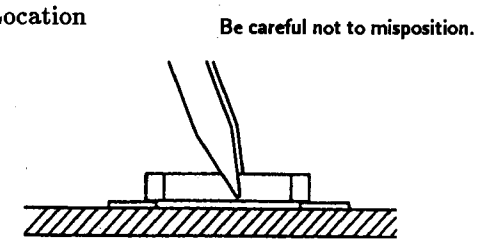


SOLDERING

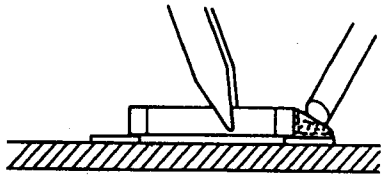
1) Preparation



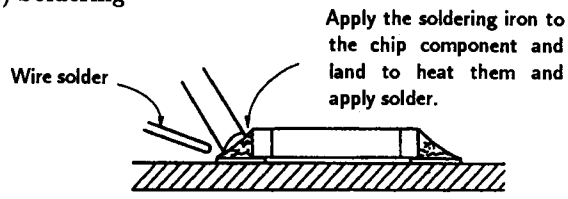

2) Location



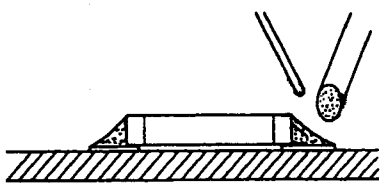

3) Tack soldering and flux application



4) Soldering




5) Soldering (Fix the fillet.)



6) Visual inspection

Check for the following defects :

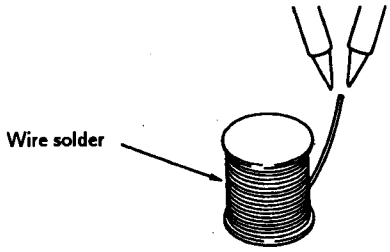
- No-soldered part
- Bridge (to other components or lands)
- Mispositioning
- Other defects

## 2-12-4. MINI-TRANSISTOR

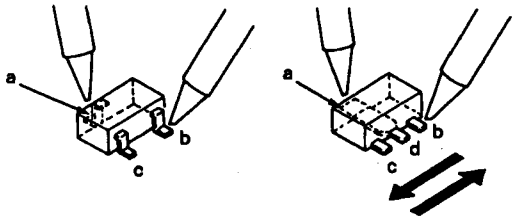
REMOVAL

- Using two soldering irons

1) Put a little solder on the tip of two soldering irons.

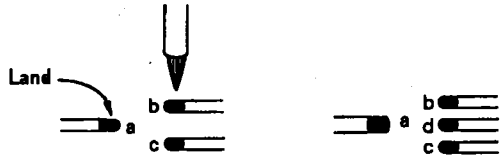



2) Apply the tip of one soldering iron to the point "a" and the other to the points "b" → "c" (or "b" → "d" → "c") and move the component in the directions indicated by arrows in the figure to remove it.

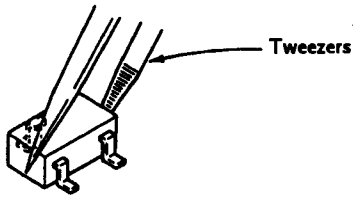



MOUNTING

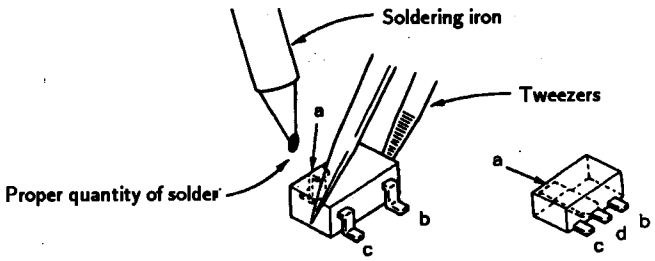
1) Apply a little flux to the land with a brush.



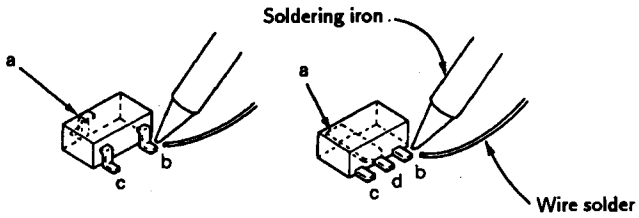

2) Place the component in position using tweezers.




3) Put a little solder on the tip of the soldering iron and solder the point "a" to fix the component.

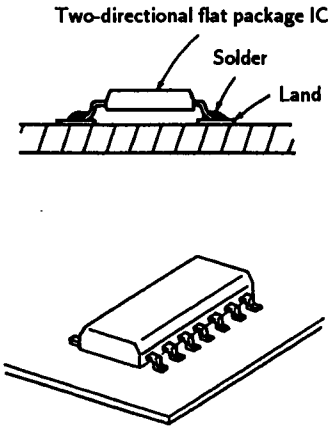



4) Bring the tip of the soldering iron and the wire solder close to the point to be soldered. Solder the points "b" → "c" (or "b" → "d" → "c") in order.



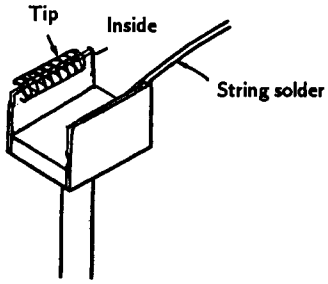
## 2-12-5. TWO-DIRECTIONAL FLAT PACKAGE IC

MOUNT CONDITION

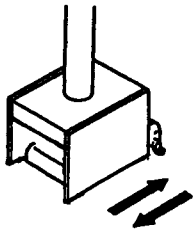



REMOVAL

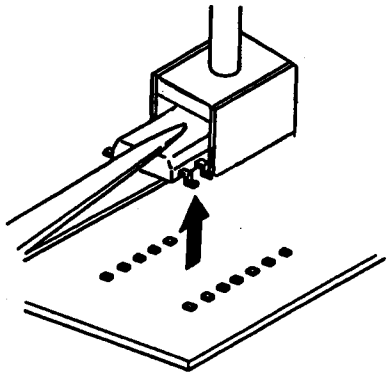
1) Apply some solder on the inside and the tip of the iron tip jig.




2) Place the iron tip jig over the IC, and move the jig to and fro as shown in the figure.

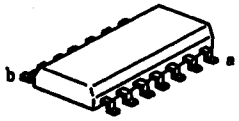


3) When the solder melts, lift the IC with a pair of tweezers and remove.

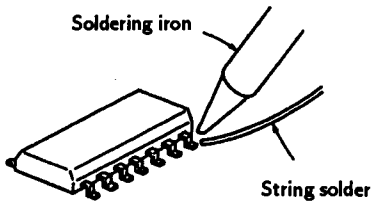


INSTALLATION

1) Place the two-directional flat package IC at the appointed position, solder pins a and b on the diagonal, and fasten it.

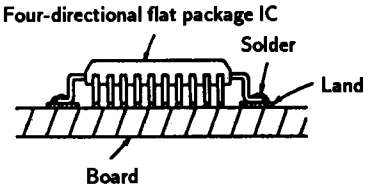


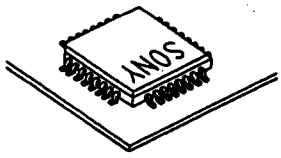

2) Solder the remaining pins with the soldering iron.



## 2-12-6. FOUR-DIRECTIONAL FLAT PACKAGE IC

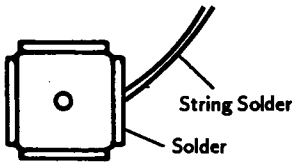
MOUNT CONDITION



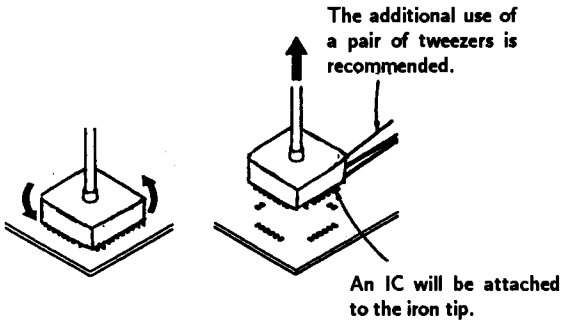




REMOVAL

1) Apply solder on the tip of the iron tip jig.




2) Place the iron tip jig over the IC, wait about two to three seconds, rotate the iron slightly and lift it up.

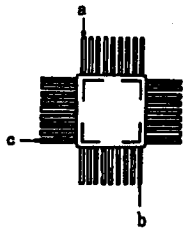



Note : For flat ICs of above 52 P, the IC may not be completely attracted when the iron tip jig is lifted up. In these cases, use a pair of tweezers to remove.

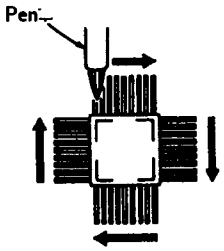
INSTALLATION

1) Place the four-directional flat package IC at the appointed position.

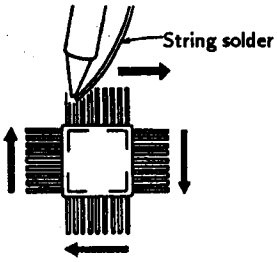
2) Apply a slight amount of solder on the iron tip, and solder the three sections in the order of a → b → c, and fix.



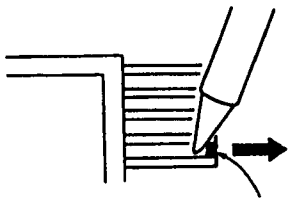

3) Apply a slight amount of flux with a pen on all four directions.




4) Apply solder on the iron tip and the string solder, and slide and solder in the directions of the arrows.



Note: 1) After soldering, if there are bridged sections, correct by sliding the soldering iron in the direction of the arrow.



Bridged section

If the bridges cannot be corrected using the above method, apply some flux with a pen and try again.

2) Soldering can be carried out more easily by sliding the iron tip near the tip of the IC leg. (Fig. A)

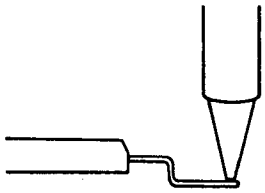


Fig. A

Be careful not to slide the bent sections of the leg as shown in Fig. B as soldering bridges will be formed.

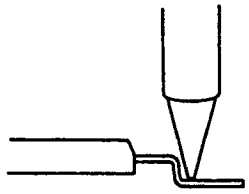
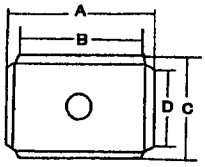
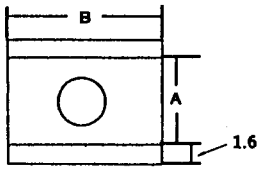
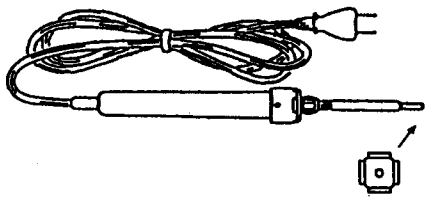
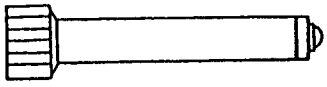


Fig. B

| Exterior | Description | Part No. | Measure (mm) | | | |
|---|---|---|---|---|---|---|
| | | | A | B | C | D |
|  | jig for removing 4-sided flat package IC | 3-702-554-01 | 12.5 | 9.5 | 12.5 | 9.5 |
| | | 〃 11 | 15.5 | 12.5 | 15.5 | 12.5 |
| | | 〃 21 | 16.3 | 13.3 | 16.3 | 13.3 |
| | | 〃 31 | 17.0 | 14.0 | 17.0 | 14.0 |
| | | 〃 41 | 23.0 | 20.0 | 17.0 | 14.0 |
| | | 〃 51 | 20.0 | 17.0 | 20.0 | 17.0 |
|  | jig for removing 2-sided flat package IC | 3-702-555-01 | 6.0 | 5.0 | | |
| | | 〃 11 | 6.0 | 10.0 | | |
| | | 〃 21 | 7.0 | 12.5 | | |
| | | 〃 31 | 9.0 | 15.2 | | |
| | | 〃 41 | 9.0 | 18.0 | | |
|  | soldering iron | 3-702-552-01 | 55 W<br>60 g<br>length 210 mm | | | |
|  | soldering holder | 3-702-553-01 | | | | |

# SECTION 3
# SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted :

PICTURE control . . . . . RESET

BRIGHTNESS control . . . . . center

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

**Note :** Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

**Preparations :**

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

## 3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   Contrast
   Bightness } normal
2. Position neck ass'y as shown in Fig 3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.
   (See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Figure 3-4.)

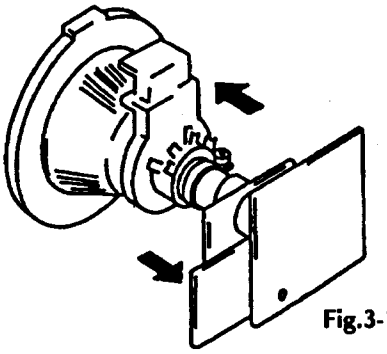


Fig.3-1

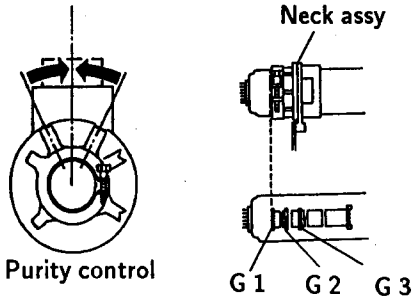



Fig.3-2

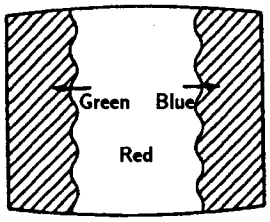



Fig.3-3

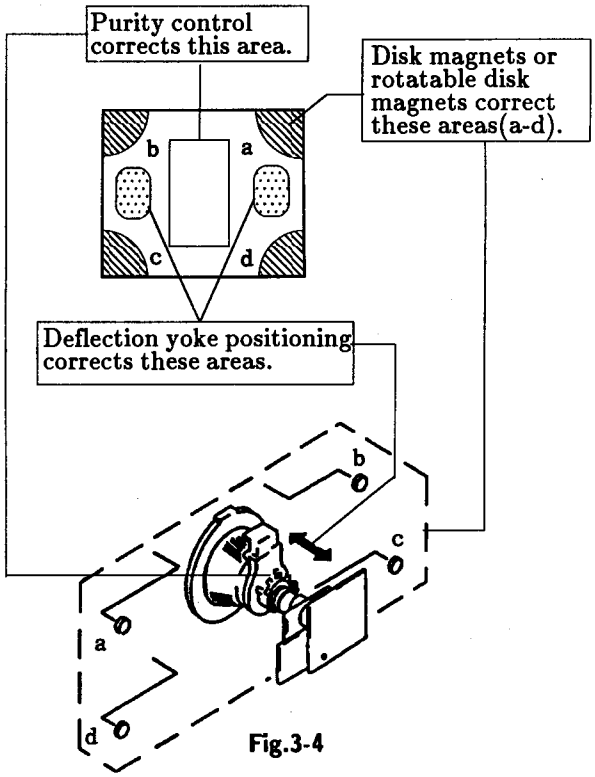


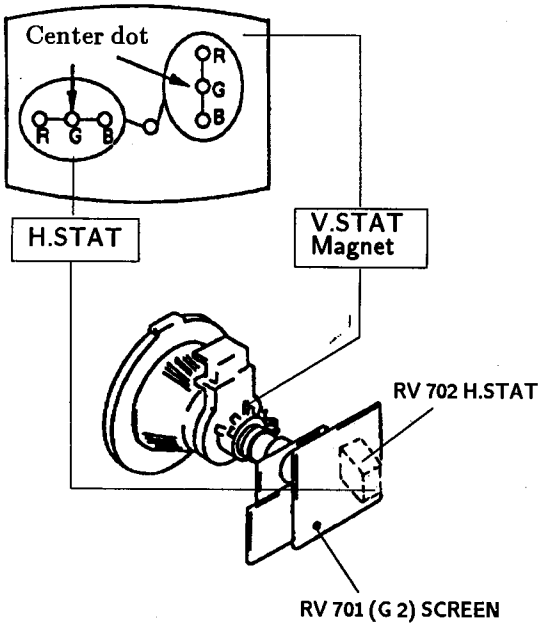

Fig.3-4

## 3-2. CONVERGENCE

**Preparation :**

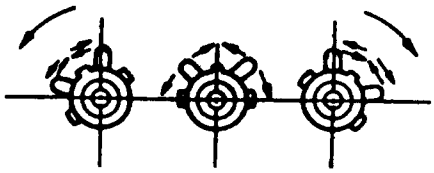
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) **Horizontal and Vertical Static Convergence**

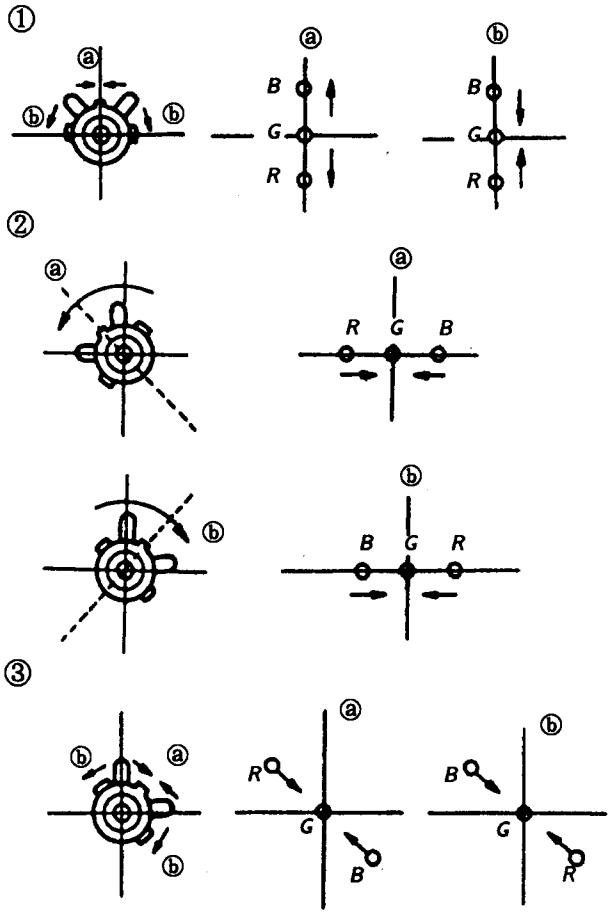



1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

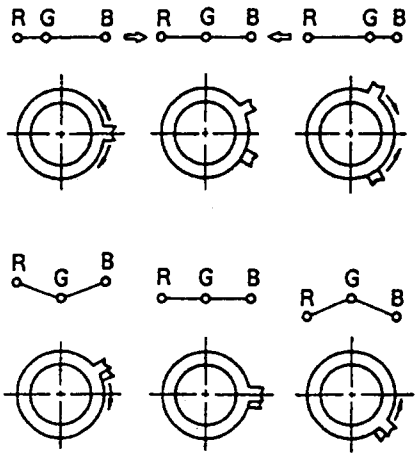
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.



- Operation of BMC (Hexapole) Magnet



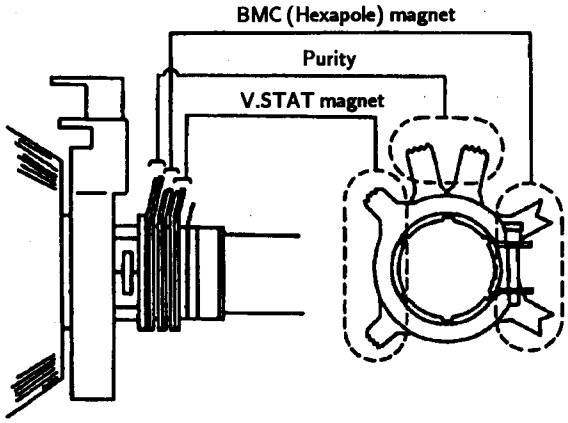

- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
  Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

(2) **Dynamic Convergence Adjustment**

**Preparations :**

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

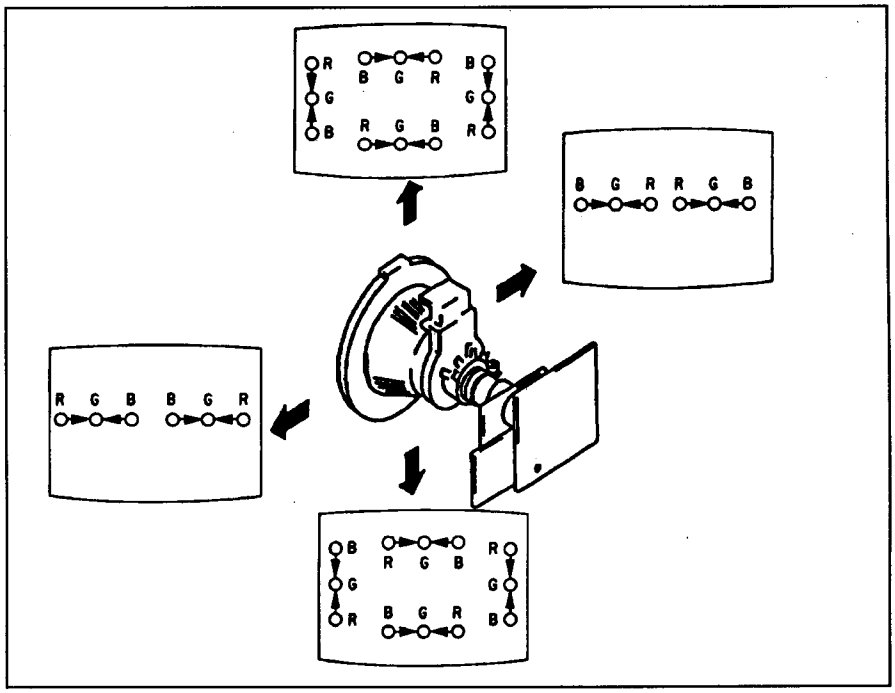
1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.




**• Y separation axis correction magnet adjustment**

1. Receive the cross-hatch signal, and adjust [PIX] to "MIN" and [BRT] to "standard".
2. Adjust the deflection yoke to the upright condition when it hits the CRT.
3. Adjust so that the Y separation axis correction magnet on the neck assembly is symmetrical at the top and bottom (open state).
4. Return the deflection yoke to its original position.

3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the defelection yoke spacer.



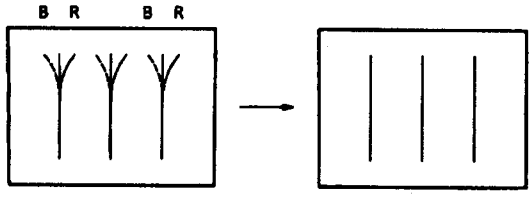
### (3) Dynamic Convergence Circuit Adjustment

- Set to Service Mode.
- Input a cross-hatch signal.
- Press [1] and [4] serect an item of adjustments.
- Adjust [3] and [6] to the best picture.

| ITEM | REFERENCE DATA | NAME REGISTER | |
|---|---|---|---|
| UYBO | 39 | VP | U. Y. BOW |
| LYBO | 39 | VP | L. Y. BOW |
| HAMP | 26 | VP | H. AMP |
| HTILT | 36 | VP | H. TILT |
| UCBO | 20 | VP | U. C. BOW |
| UTIL | 44 | VP | U. TILT |
| LCBO | 31 | VP | L. C. BOW |
| LTIL | 63 | VP | L. TILT |
| DCSH | 19 | VP | DC. SHIFT |

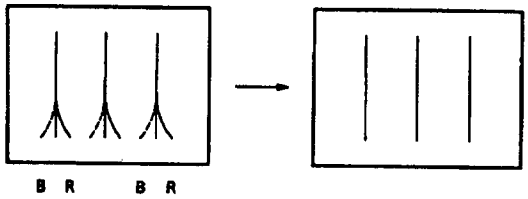
U. YBOW

Select UYBO with [1] and [4]



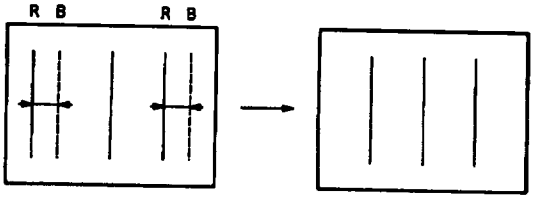

L. YBOW

Select LYBO with [1] and [4]



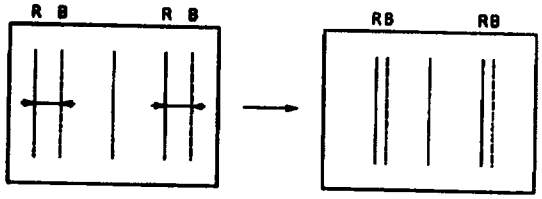

H. AMP

Select HAMP with [1] and [4]



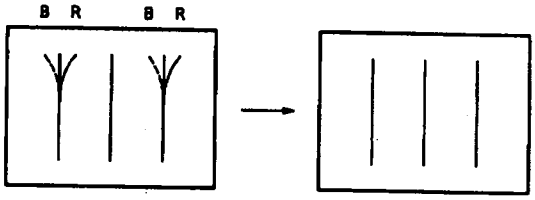

H. TILT

Select HTILT with [1] and [4]



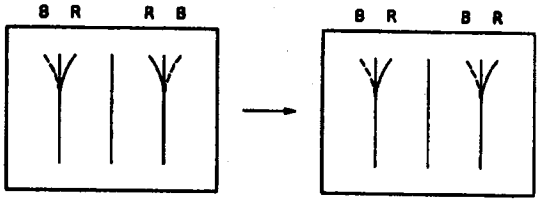

U. CBOW

Select UCBO with [1] and [4]



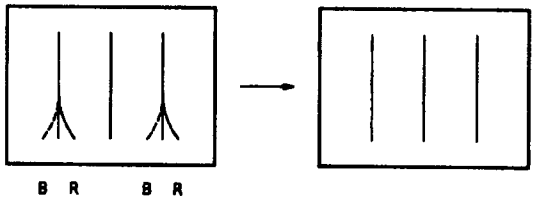

U. TILT

Select UTIL with [1] and [4]



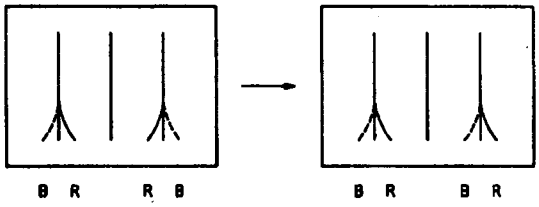

L. CBOW

Select LCBO with [1] and [4]

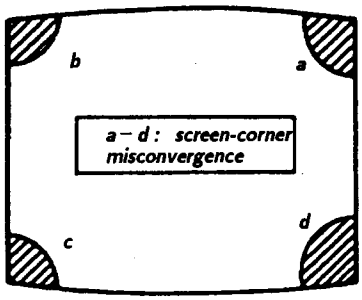


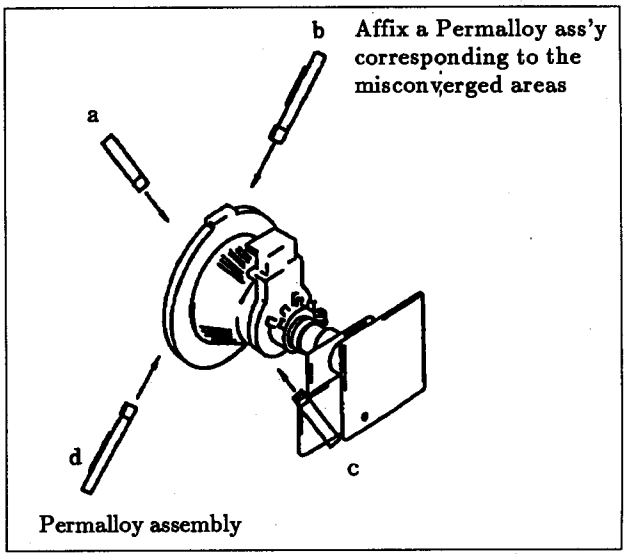

L. TILT

Select L. TIL with [1] and [4]



(4) Screen-corner Convergence

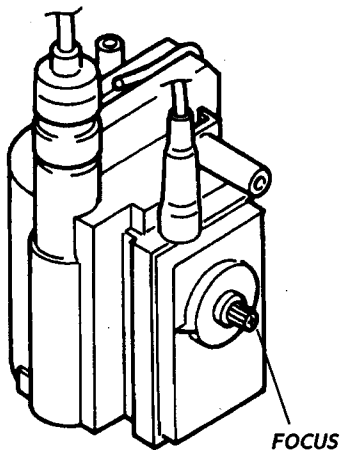


Permalloy assembly

## 3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for a best focus.



FLYBACK TRANSFORMER (T 501)

## 3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

### 1. G 2 (SCREEN) ADJUSTMENT(RV 701)

1) Set the PICTURE and BRIGHTNESS to normal.
2) Confirm G 1 voltage is within 30.0±5 V.
3) Apply DC voltage of 180 V to the cathodes of R,G and B from DC stabilized power source.
4) While watching the picture, adjust the G2 control (RV 701) to the just the retrace line disappears.

(Using the Remote Commander)

### 2. WHITE BALANCE ADJUSTMENTS

※ ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER (See page 55, 56)

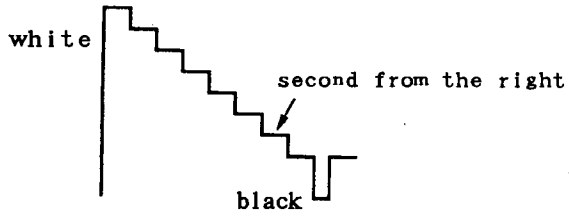
1) Set to service mode.
2) Press [STANDARD] to normal and if necessaries "TRINITONE" set to "LOW" by [+] or [−].
3) Input an entire white signal.
4) Set the PICTURE to minimum.
5) Select S BRT with [1] and [4], and then set the level to minimum with [3] and [6].
6) Select G CUT and B CUT with [1] and [4]. And adjust the level with [3] and [6] for the best white balance.
7) Set the PICTURE to maximum.
8) Select G AMP and B AMP with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
9) Write into the memory by pressing [MUTING] → then [ENTER].

### - WHITE BALANCE ADJUSTMENT OF THE WINDOW PICTURE -

1) Press P/P to display a window picture.
2) Input an entire-white signal.
3) Adjust RV 3003 (SUB BRT) on P 1 board to control the window as similar to the white pattern as possible.

### 3. SUB BRIGHT ADJUSTMENT

1) Set to service mode.
2) Input a staircase signal of black and white from the pattern generator.
3) BRIGHTNESS ··· RESET
   PICTURE ····· minimum
4) Select SBRT with [1] and [4], and adjust SUB BRIGHT level with [3] and [6] so that the stripe second from the right is dimly lit.



# SECTION 4
# SAFETY RELATED ADJUSTMENTS

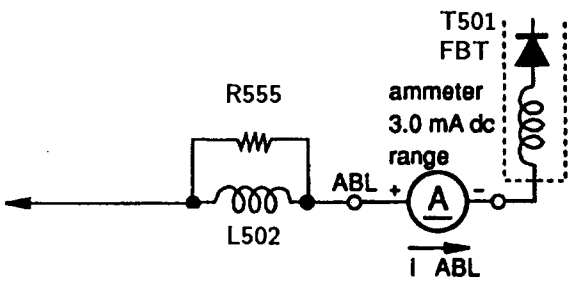
## A BOARD

### ⊠ R565 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ◪ on the schematic diagram).
IC502,Q509,Q510,R565,R567,R568,R569

①

1. Preparation before confirmation
   1) Remove R651 on the G board and connect a variable resistor (RV1 : about 10kΩ ) between pin ① of IC651 and B+ line.
   2) Supply 120±2.0V AC to with variable auto-transformer.
2. Hold-down operation confirmation
   1) Turn the POWER switch ON, and input an entirely white signals and adjust ABL current to 1640±20μA with PICTURE and BRIGHT etc controls.
   2) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than 152.0V DC whereby the raster disappears during operation of hold-down circuit.
      **NOTE:** When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.
   3) Turn the POWER switch ON, and input a dot signals and adjust ABL current to 140±20μA with PICTURE and BRIGHT etc controls.
   4) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is lower than 154.5V DC whereby the raster disappears during operation of hold-down circuit.
      **NOTE:** When the Hold-down circuit starts operating, switch OFF the POWER of the set immediately.
3. Hold-down readjustment
   When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R565 (a component marked with ⊠).




## A BOARD

### ⊠ R566 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ◪ on the schematic diagram).
IC502,IC651,Q509,Q510,D502,C531,R554,R566,R567,R568,R569,R651,R1506,T501

②

1. Preparation before confirmation
   1) Turn the POWER switch ON, and input an entirely white signals and set the PICTURE and BRIGHT controls to maximum.
   2) Confirm that voltage of the check terminal of pin② of A-0 connector is more than 100.0V DC when the set is operating normally with 120.0± 2.0V AC supply.
2. Hold-down operation confirmation
   1) Turn the POWER switch ON, and input an entirely white signals and set the PICTURE and BRIGHT controls to maximum.
   2) Apply DC voltage of over 130±2.0V DC gradually to the check terminal of pin ② of A-0 connector via 1SS119 from the DC stabilized power source.
      Confirm that the minimum voltage is lower than 120.5V DC whereby the raster disappears during operation of hold-down circuit.
      **NOTE:** When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.
3. Hold-down readjustment
   When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R566 CARBON 1/4W (a component marked with ⊠).

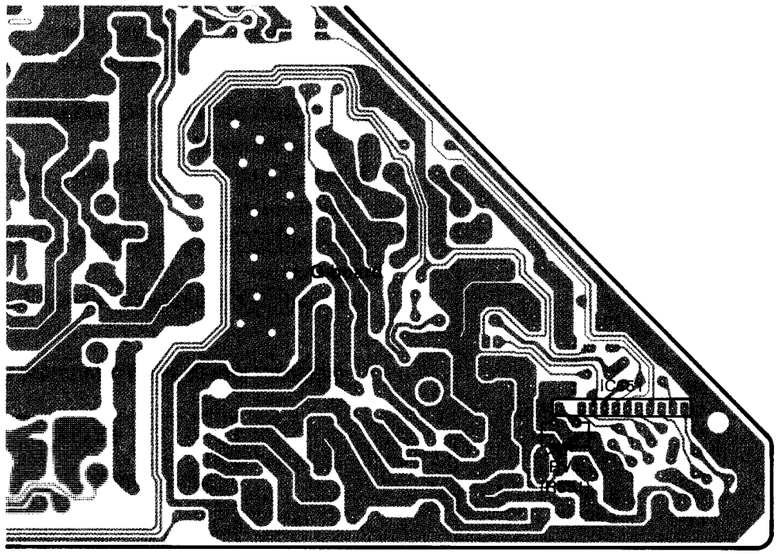
KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

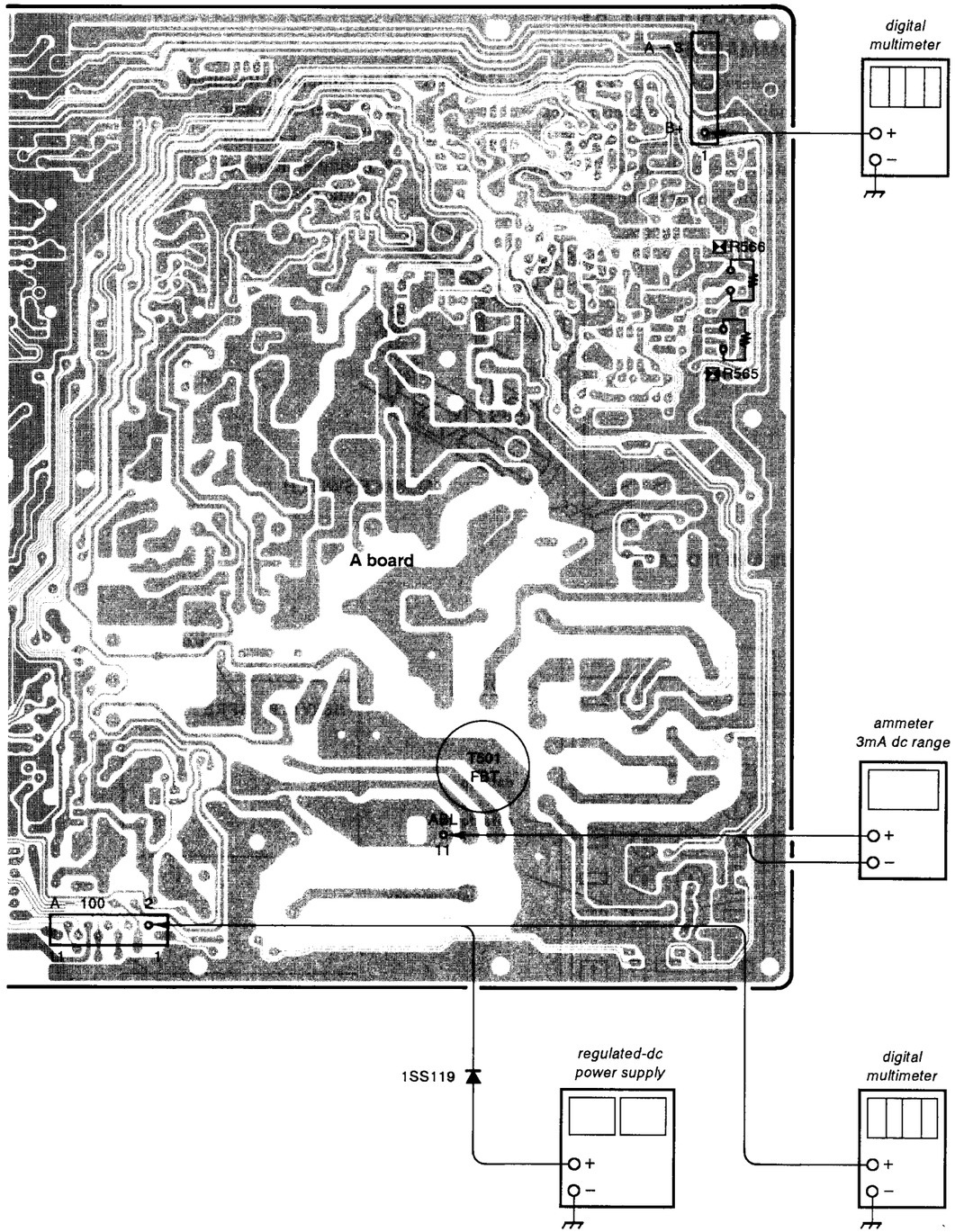
## G BOARD

**B+ VOLTAGE CONFIRMATION**

The following adjustments should always be performed when replacing IC651 and R651.

1) Supply 130±2%V AC to with variable autotransformer.
2) Input an entirely monoscope signal.
3) Set the PICTURE control and the BRIGHT controls in to initial reset.
4) Confirm the voltage of A BOARD ① pin A-3 connecter is less than 136.5V DC.
5) If step 4) is not satisfied, replace IC651 and R651 repeat above steps.



KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

# SECTION 5
# CIRCUIT ADJUSTMENTS

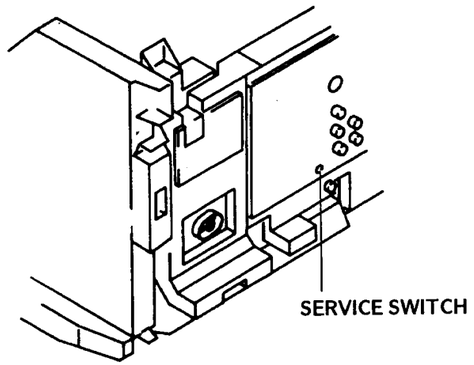
## 5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

Use of Remote Commander (RM-Y112A, Y113A) can be performed circuit adjustments about this model.

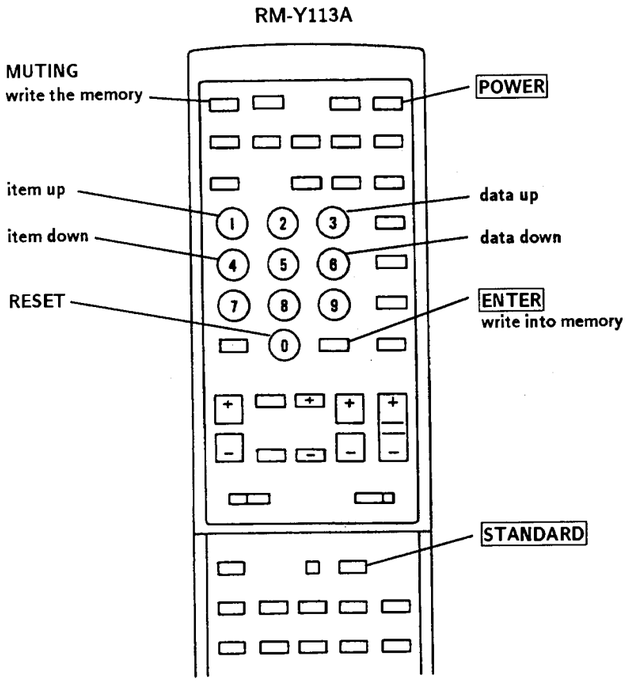
NOTE : Test Equipment Required.
1. Pattern Generator
2. Frequency counter
3. Digital multimeter
4. Audio OSC

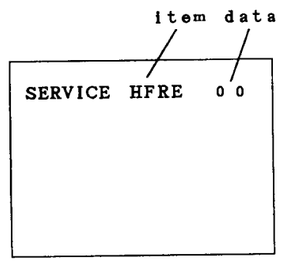
### 1. METHOD OF SETTING THE SERVICE MODE

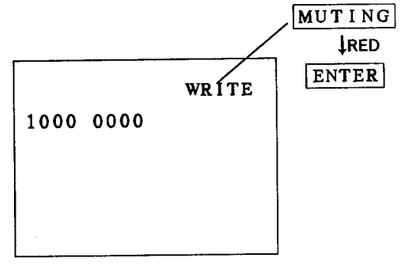
1) Press POWER button on the Remote Commander while pressing switch on the rear of the set.




### 2. ADJUST BUTTONS AND INDICATOR






### 3. AN ITEM OF ADJUSTMENT

| ITEM | REFERENCE DATA | NAME REGIST | |
|---|---|---|---|
| AFC | 1 | VP | AFC 1.0 |
| HFRE | 93 | VP | H. FREQUENCE |
| VFRE | 15 | VP | V. FREQUENCE |
| VPOS | 19 | VP | V. SHIFT |
| VSIZ | 32 | VP | V. SIZE |
| VLIN | 2 | VP | V. LINEARITY |
| VSCO | 3 | VP | VS. CORRECTION |
| HPOS | 9 | VP | H. PHASE |
| HSIZ | 25 | VP | H. SIZE |
| PAMP | 17 | VP | PIN. AMP. |
| CPIN | 4 | VP | CORNER PIN |
| PPHA | 8 | VP | PIN. PHASE |
| VCOM | 2 | VP | V. COMP |
| GAMP | 19 | VP | GREEN AMP. |
| BAMP | 9 | VP | BLUE AMP. |
| GCUT | 8 | VP | GREEN CUT OFF. |
| BCUT | 6 | VP | BLUE CUT OFF |
| SPIX | 40 | VP | PICTURE |
| SHUE | 29 | VP | HUE |
| SCOL | 30 | VP | COLOR |
| SBRT | 40 | VP | BRIGHT |
| RGBP | 28 | VP | RGB PICTURE |
| SHAP | 7 | | SHARPNESS |
| DISP | 35 | | OUTPUT |
| VSMO | 0 | VP | VSMO |
| REF | 2 | VP | REF 1.0 |
| ROFF | 1 | VP | OFF NR |
| GOFF | 1 | VP | OFF NG |
| BOFF | 1 | VP | OFF NB |
| ABLM | 0 | VP | ABLM |
| DRGB | 1 | VP | D RGB |
| YBOW | 31 | DE | Y BOW |
| VANG | 35 | DE | V. ANGLE |
| HTAP | 31 | DE | H. TRAP |
| TEST | 0 | AP | T |
| MPX | 7 | AP | ATT |
| FILO | 31 | AP | I1 |
| DEEM | 7 | AP | I2 |
| STEV | 31 | AP | OSC 1 |
| SAPV | 31 | AP | OSC 2 |
| PILO | 7 | AP | PILOT |
| SEP | 31 | AP | WIDE BAND |
| VD | 7 | AP | SPECTRAL |
| LVOL | 0 | AP | VOLUME-L |
| RVOL | 0 | AP | VOLUME-R |
| BASS | 7 | AP | BASS |
| TRE | 7 | AP | TREBLE |
| UYBO | 39 | DC | U.Y. BOW |
| LYBO | 39 | DC | L.Y. BOW |
| HAMP | 26 | DC | H.AMP |
| HTIL | 36 | DC | H TILT |
| UCBO | 20 | DC | U.C. BOW |
| UTIL | 44 | DC | U.TILT |
| LCBO | 31 | DC | L.C. BOW |
| LTIL | 63 | DC | L.TILT |
| DCSH | 19 | DC | DC. SHIFT |
| PHPO | 34 | PI | READ DELAY H |
| PVPO | 8 | PI | READ DELAY V |
| PLEV | 14 | PI | PICTURE LEVEL |
| PFCO | 11 | PI | FRAME COLOR |
| NRLE | 30 | | NR LEVEL |
| DSPP | 31 | | |

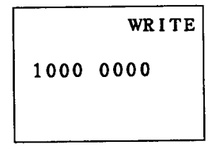
### 4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press POWER button on the commander) in the next place, press POWER button again, hereupon it becomes TV mode.

### 5. METHOD OF WRITE FOR MEMORY

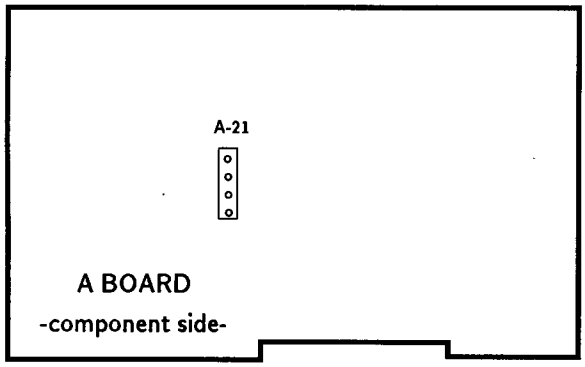
1) Set to Service Mode.
2) Press 1 (UP) and 4 (DOWN), select an item of adjustments.
3) Press MUTING button indicate WRITE (RED) on screen.
4) Press ENTER button to write for memory.

### 6. MEMORY WRITE CONFIRMATION METHOD




1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again, confirm they were adjusted.

## 5-2. A BOARD ADJUSTMENTS




### RF AGC ADJUSTMENT(IF BLOCK VR)

1) Input a color-bar signal.
2) Adjust AGC VR of TU 101 so that snow noise and cross-modulation disappear from the picture.
3) Confirm them at every channel.

### H.FREQUENCY ADJUSTMENT (HFRE)

1) Set to Service Mode.
2) Input a color-bar signal.
3) Connect a frequency counter to base of Q 507.
4) Call the item of AFC, set to 3 level (free run).
5) Select HFRE with 1 and 4.
6) Adjust 3 and 6 to the 15735± 60 Hz level.
7) Call the item of AFC again, adjust the level" 01 ".
8) Write into the memory by pressing MUTING → then ENTER.

### V.FREQUENCY ADJUSTMENT (VFRE)

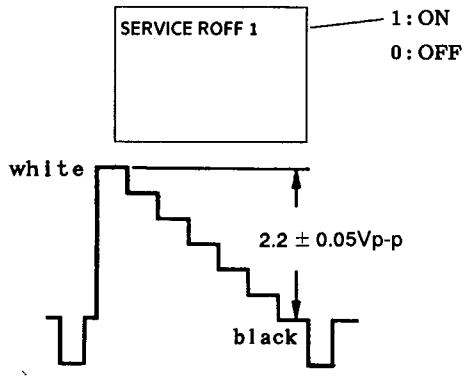
1) Set the Service Mode.
2) Input an off-air signal (VIDEO IN → no signal).
3) Connect the frequency counter across connector VDY − ⊕ of DY-1 connector and ground.
4) Select VFRE with 1 and 4.
5) Adjust 3 and 6 to the 55 ±0.5 Hz.
6) Write the memory by pressing MUTING → then ENTER .

### SUB CONTRAST ADJUSTMENT (SPIX)

1) Set to Service Mode.
2) Input a color-bar signal. (75 IRE)
3) Set the conditions as follows.

| | | |
|---|---|---|
| PICTURE | ····· | MAX |
| COLOR | ····· | MIN |
| BRIGHT | ····· | MIN |
| R OFF | ····· | ON |
| G OFF | ····· | OFF |
| B OFF | ····· | OFF |

Press MENU and select VIDEO MENU → - (L) (It becomes minimum).
Select 3 (ON) and 6 (OFF) with 1 and 4.

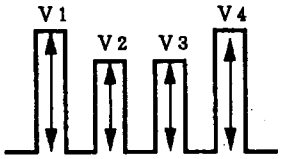



4) Connect an oscilloscope to TP49B of C board and ground.
5) Adjust 3 and 6 to the 2.2 ± 0.05Vp-p level by select-ing SPIX with 1 and 4.
6) Write the memory by pressing MUTING → then ENTER .
7) Return the following back to normal after adjustment.

| | | |
|---|---|---|
| G OFF | ····· | ON |
| B OFF | ····· | ON |
| COLOR | ····· | CENTER |
| BRIGHT | ····· | CENTER |
| PICTURE | ····· | 80% |

## SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

1) Input a color-bar signal.
2) Press STANDARD to normal.
3) Set to Service Mode.
4) Connect an oscilloscope to TR 49 R of C board and ground.
5) Adjust 3 and 4 to the V1=V4 and V2=V3 by select to SHUE and SCOL with 1 and 4.

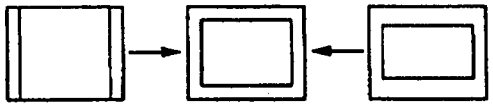



6) Write into the memory by pressing MUTING →then ENTER .

## V.SIZE ADJUSTMENT (VSIZ)

1) Set to Service Mode.
2) Press STANDARD to normal.
3) Input a cross-hatch signal.
4) Adjust 3 and 6 to the best vertical size by selecting VSIZ with 1 and 4 .
5) Write into the memory by pressing MUTING →then ENTER .

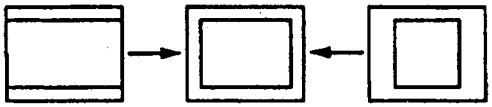
V SIZE (VSIZ)



## H.SIZE ADJUSTMENT (HSIZ)

1) Input a cross-hatch signal.
2) Press STANDARD to normal.
3) Set to Service Mode.
4) Adjust 3 and 6 to best horizontal size by selecting HSIZ with 1 and 4.
5) Write into the memory by pressing MUTING →then ENTER .

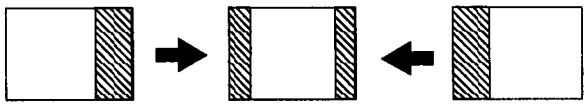
H SIZE (HSIZ)



## H.CENTER ADJUSTMENT (H POS)

Note: Perform this adjustment after H.FREQUENCY ADJUSTMENT (HFRE) .

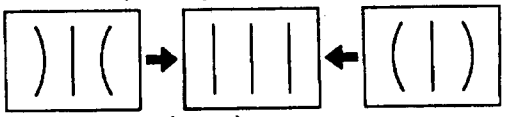
1) Input a color bar signal.
2) Set the Service mode.
3) Select HSIZ with 1 and 4 .
4) Press 6 so that the Horizontal size set to min.
5) Adjust A-21 conector position so that both-size branking width of the Raster should be same on the Scrnne.
6) Unplug Set then plug in Set.
7) Set to Service mode.
8) Select HPOS with 1 and 4 .
9) Adjust 3 and 6 so that the color bars center should be set to the CRT Screen center position.
10) White into the memory by the pressing MUTING → then ENTER .



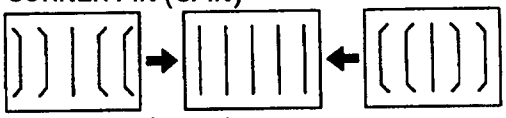
## PIN AMP (PAMP) , CORNER PIN (CPIN) PIN PHASE (PPHA), H TRAPIZOID (HTRA) V LINEARITY (VLIN), V ANGLE (VANG), VS CORRECTION (VSCO), Y BOW (YBOW), V SHIFT (VPOS), AND V COMP (VCOM) ADJUSTMENTS

1) Input a cross-hatch signal.
2) Press STANDARD to normal.
3) Set to Service Mode.
4) Select PAMP, CPIN, PPHA, H TRA, VPOS, VCOM, LVIN, VANG, VSCO and YBOW with 1 and 4.
5) Adjust 3 and 6 to the best picture.
6) Write the memory by MUTING → ENTER.

PIN AMP (PAMP)

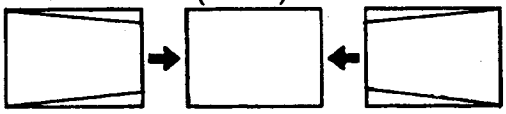


CORNER PIN (CPIN)

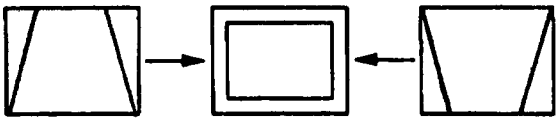


PIN PHASE (PPHA)

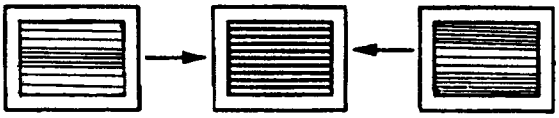
H TRAPIZOIDO (HTRA)



V-SHIFT (VPOS)

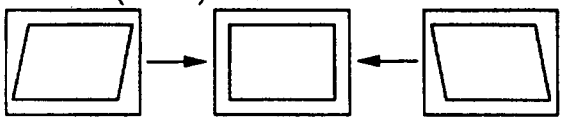


V COMP (VCOM)



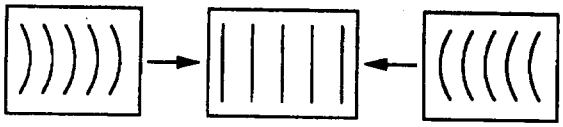
V LINEARITY (VLIN)

V ANGLE (VANG)



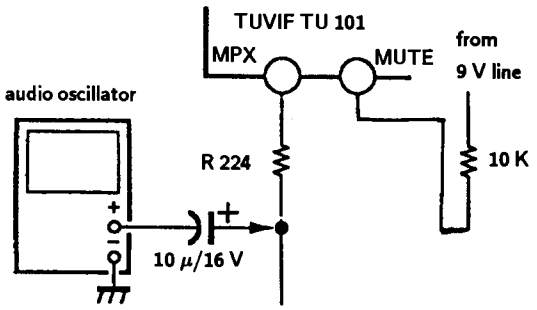
VS CORRECTION (VSCO)

Y BOW (Y BOW)



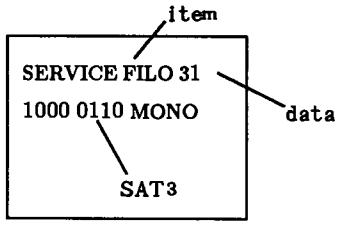
## FILTER ADJUSTMENT (MPX, FILO)

1) Set to Service Mode.
2) Select to [TEST] with [1] and [4], set the data to "1". Then select MPX and change data to "08" .
3) Connect an audio oscillator to R224 using a capacitor (10$\mu$ F/16V), set frequency to 62.936 kHz $\pm$0.1 kHz.
   And then, through the 10k$\Omega$ resistor, feed 9.0V into the mute of TUVIF TU 101.



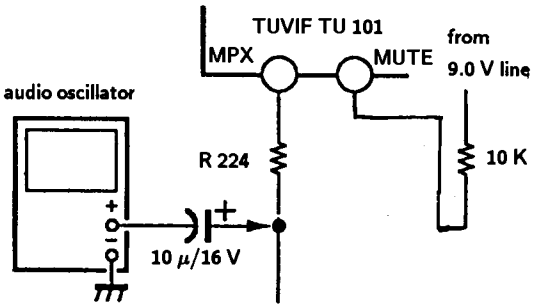

V 4 fh : SINE-WAVE 62.936 KHz $\pm$ 0.1 KHz
LEVEL 3.0 Vp-p

4) Make the data "00" by selecting FILO with [1] and [4] And then, send up the data gradually by pressing [6] . Set the data to D1 before SAT3 changing to 1 from 0.
5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
6) Adjust the data of FILO to $\frac{D1+D2}{2}$ .
7) Write into the memory by pressing [MUTING] → then [ENTER] .



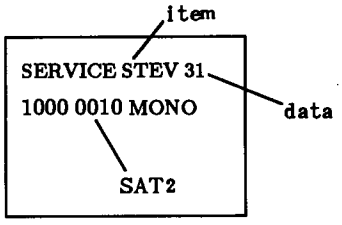

## ST VCO ADJUSTMENT (MPX, STEV)

1) Set to Service Mode.
2) Select TEST with [1] and [4] , set the data to "1". And then press [MTS] to MONO.
3) Select MPX, set the data "8" .
4) Connect an audio oscillator to R 224 using electrolytic capacitor (10$\mu$ F/16V) and appply the frequency VST. Then, apply DC voltage to mute of TUVIF TU 101 using 10k$\Omega$ connect to 9.0 V line.




Vfh : SINE-WAVE 15.734 KHz $\pm$ 0.1 KHz
LEVEL 0.28 Vp-p

5) Select STEV with [1] and [4], set the data to "00" with [6]. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
7) Adjust the data of STEV to
8) Write into the memory by pressing [MUTING] → then [ENTER] .




**MPX IN LEVEL ADJUSTMENT (MPX)**

1) Set to Service Mode.
2) Select TEST with 1 and 4, set the data to "0" with 6. And then press MTS to MONO.
3) Select MPX with 1 and 4, set the data to "08" with 3 and 6.
4) Write into the memory by pressing MUTING → then ENTER .

**PILOT CANCEL ADJUSTMENT (PILO)**

1) Set to the Service Mode.
2) Select PILO with 1 and 4, set the data to "08" with 3 and 6.
3) Write into the memory by pressing MUTING → then ENTER .

**SAP VCO $f_0$ ADJUSTMENT (SAPV)**

1) Set to Service Mode.
2) Input a stereo broadcast signal with SAP.
3) Select TEST with 1 and 4, set the data to "0" . And then, press MTS to MAIN.
4) Connect a digital multimeter to TP-1(DBX). This voltage reading will equal V 1.
5) Press MTS to SAP and this voltage will equal V 2.
6) Select SAPV with 1 and 4, adjust 3 and 6 so that V 2=V 1±0.03 VDC.
7) Write the memory by MUTING → ENTER .

**SEPARATION ADJUSTMENT (SEP)**

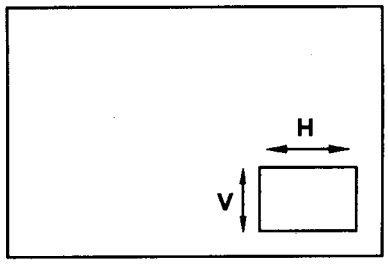
1) Set to Service Mode.
2) Press MTS to MAIN and receive a monoral broad -cast signal.

In the next step, receive a stereo broadcast signal.

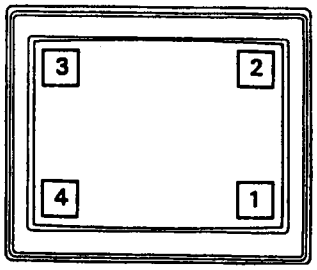
3) Select SEP and VD with 1 and 4, adjust 3 and 6 so that a clear stereo sound is effected.

**READ DELAY H/V (PHPO, PVPO)**

1) Input a cross hatch signal.
2) Set to service mode.
3) Press P/P a display a window picture. (RIGHT LOWER Position)
4) Select PHPO, PVPO with 1 and 4.
5) Adjust 3 and 6 to the READ DELAY H/V.
6) Write the memory by pressing MUTING → then ENTER .



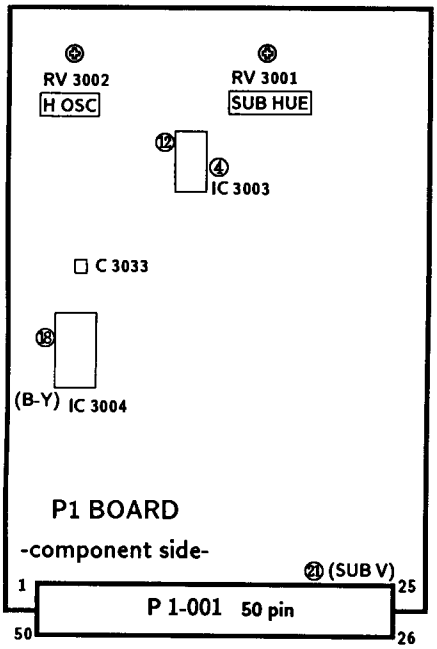

Note : Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.




PIP Positions

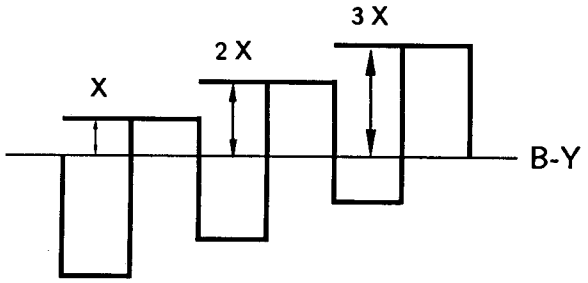
After making adjustments into the PIP 1 position, write the information into the ROM.
Next, unplug the unit and recheck the other three positions. Adjustments made to the number 1 position will affect the other three positions.

## 5-3. P1 BOARD ADJUSTMENTS




### SUB HUE ADJUSTMENT (RV 3001)

1) Set HUE and COLOR to the standard condition.
2) Make adjustment so that B-Y signal as shown to the right is obtained at the crossing point of R 3009 (0 Ω) and C 3033.
3) Supply the color bar signal of 75 IRE (white) at 2 Vpp to Pin 21 (SUB V) of P 1-001 and make adjustment by turning RV 3001.




### H. FREQUENCY (H OSC) ADJUSTMENT (RV-3002)

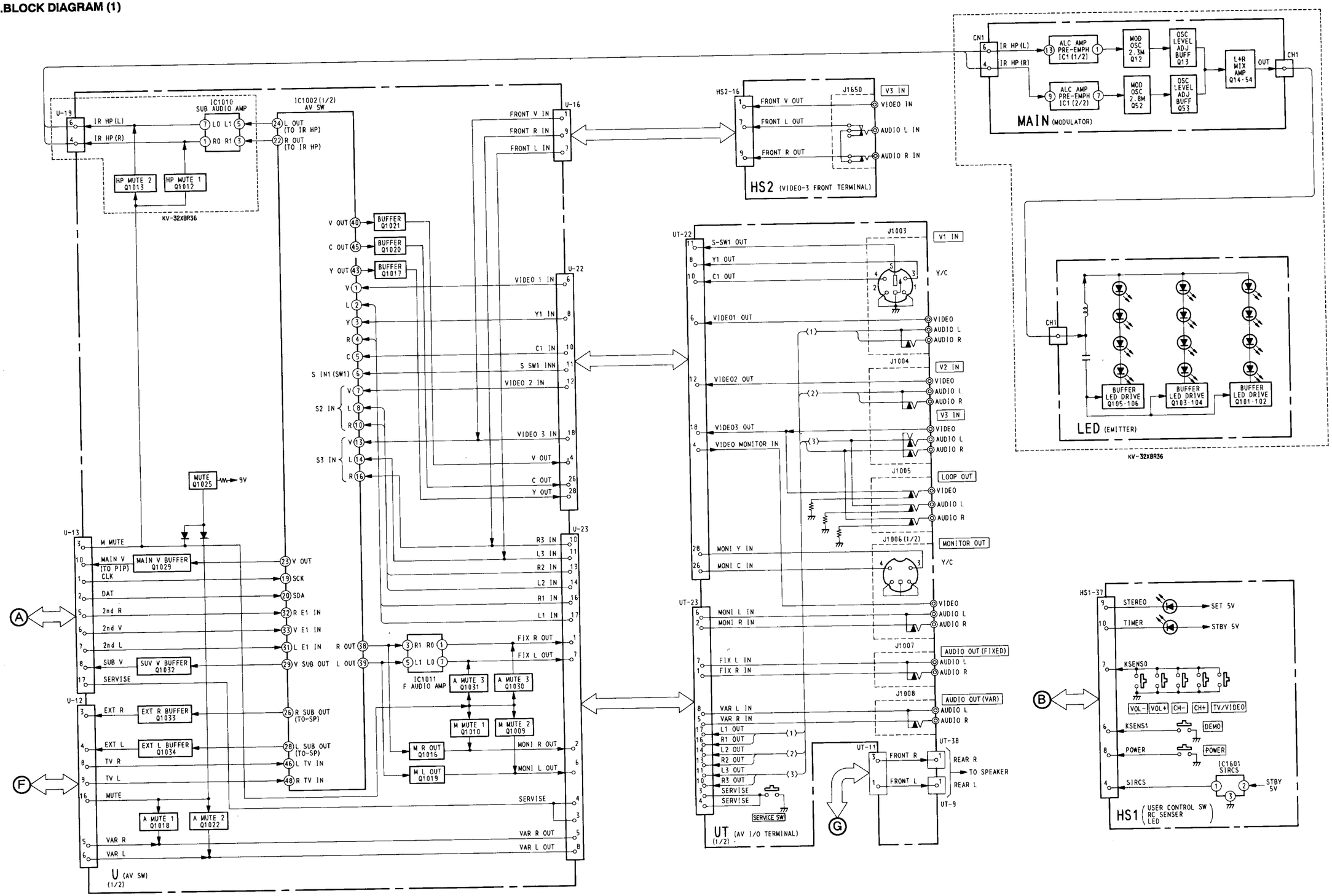
1) Connect a frequency counter to Pin ④ (H OUT) of IC 3003.
2) Connect Pin ⑫ of IC 3003 to ground.
3) Adjust RV3002 for a frequency of 15.734 kHz ± 50 Hz at Pin ④ of IC 3003.
(or until the frequency comes to a standstill.)

MEMO

KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

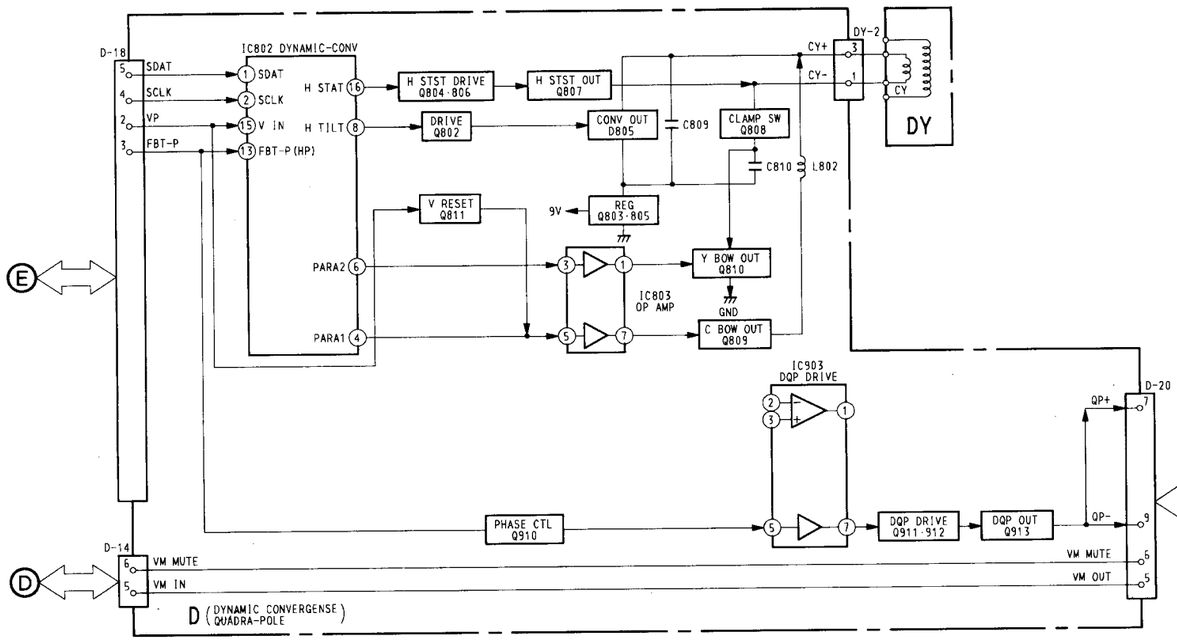
# SECTION 6 DIAGRAMS

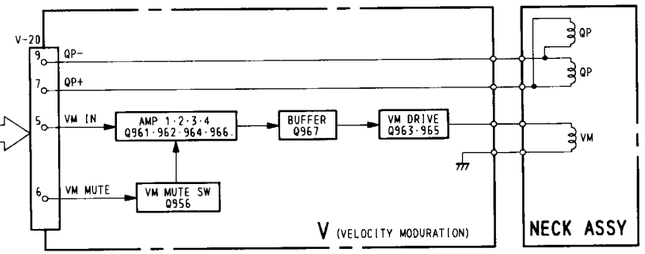
## 6-1.BLOCK DIAGRAM (1)

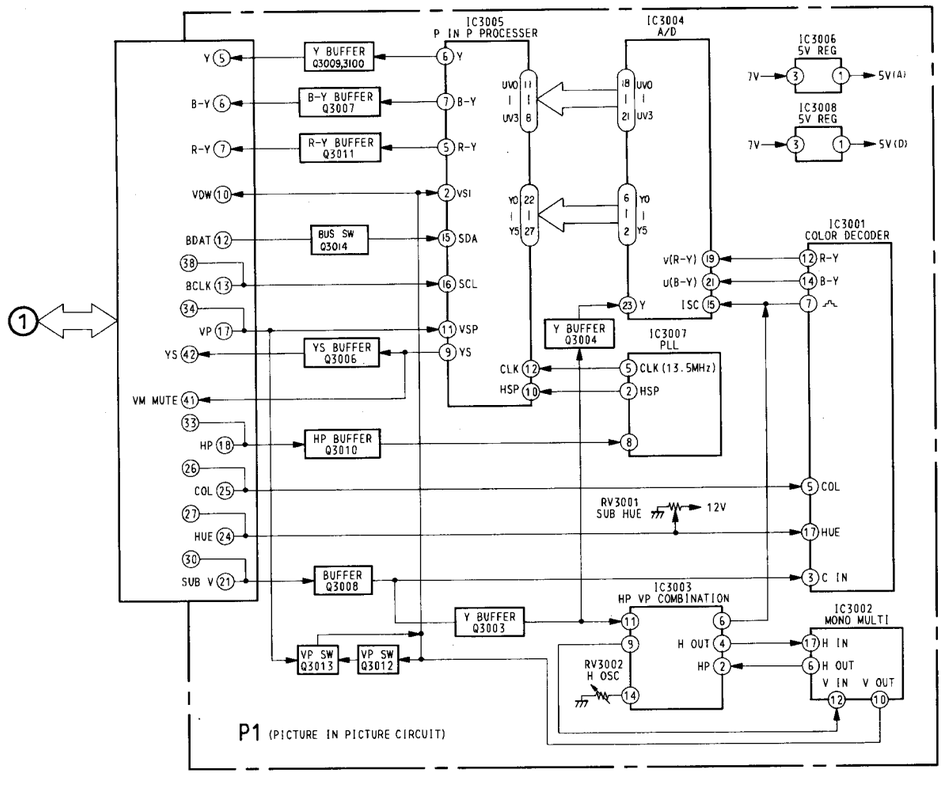


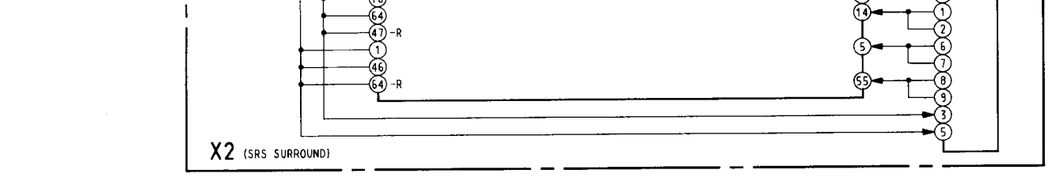
KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

## 6-2.BLOCK DIAGRAM (2)



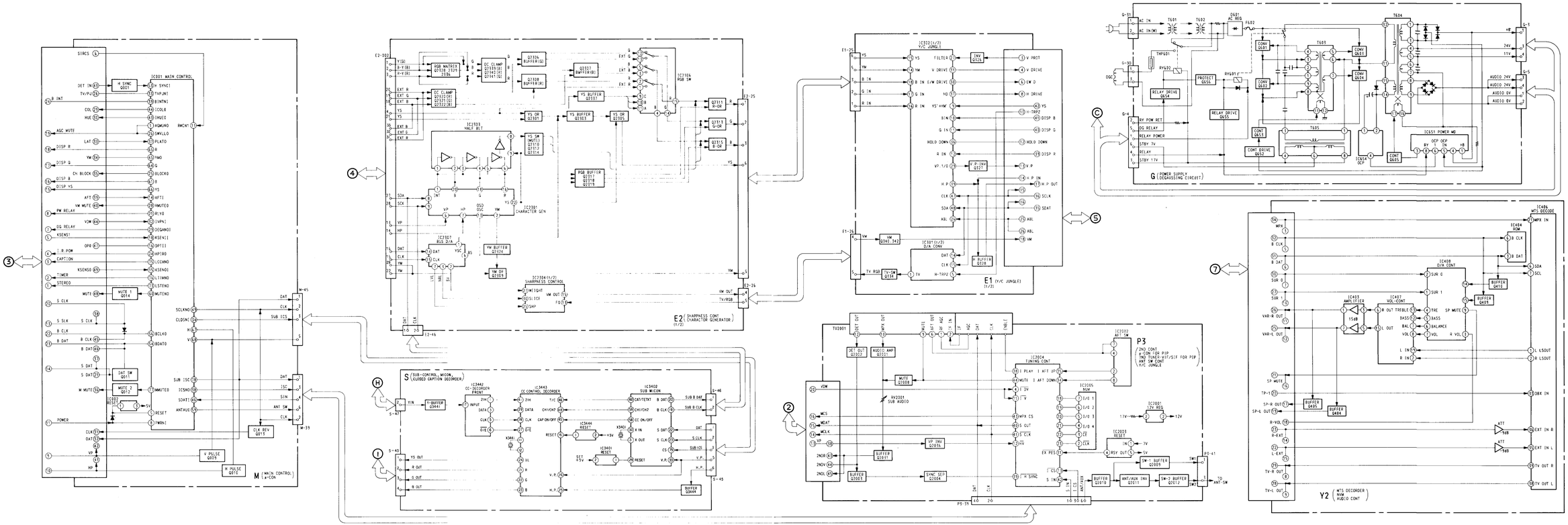



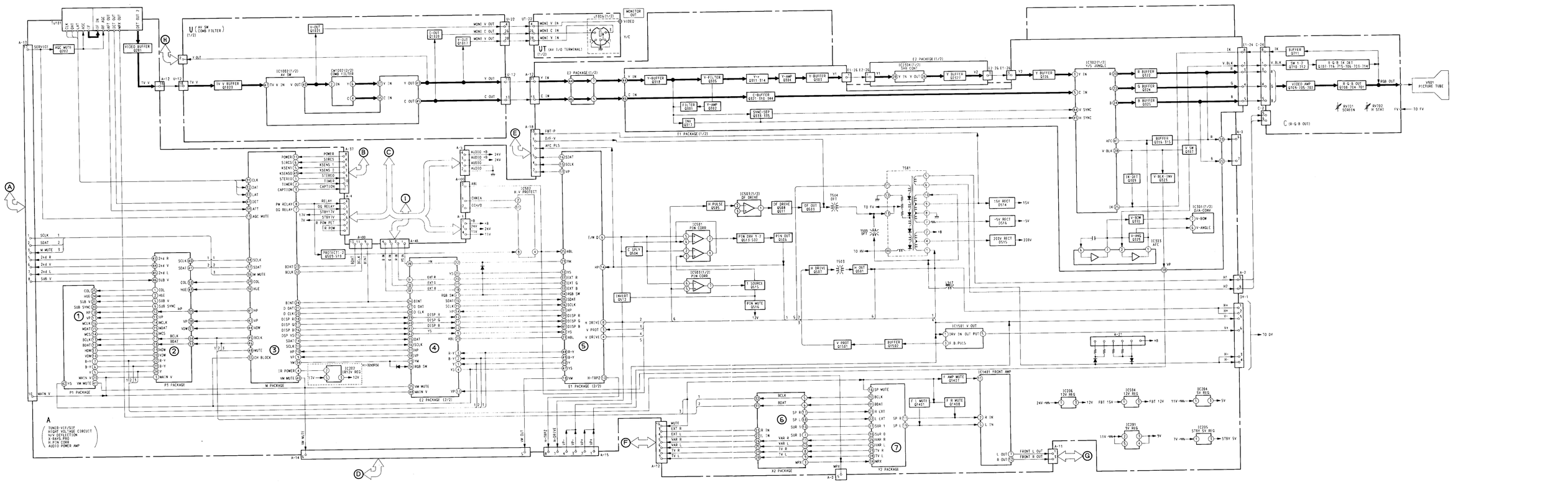



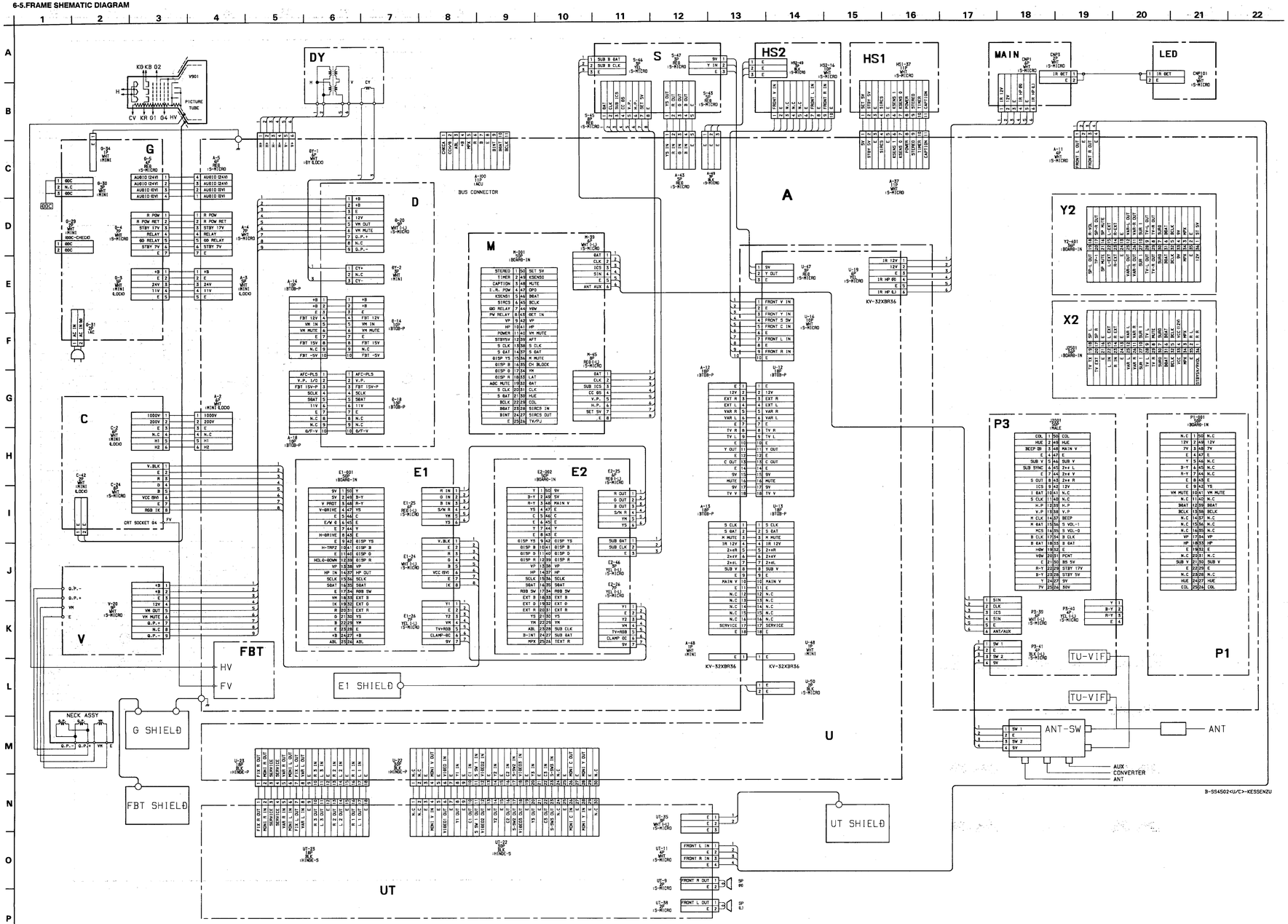
KV-32XBR26/32XBR36 KV-32XBR26/32XBR36
RM-Y112A TDR-IF310/RM-Y113A RM-Y112A TDR-IF310/RM-Y113A

**6-3.BLOCK DIAGRAM (3)**



## 6-4.BLOCK DIAGRAM (4)



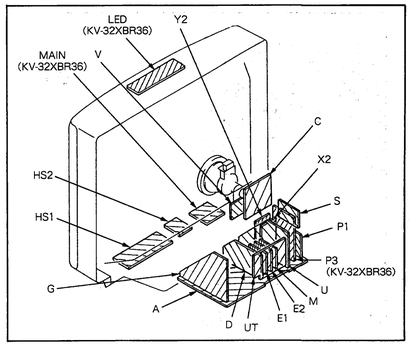









## 6-6.CIRCUIT BOARDS LOCATION




## 6-7.SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

**Note:**

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms. KΩ = 1000Ω, MΩ = 1000KΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4W
- Chips resistors are 1/10W.
- : nonflammable resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- : earth-chassis.
- The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⋈ and repeat the adjustment until the specified value is achieved. (Refer to R565 and R566 on page 52–54 in the Service Manual.)
- When replacing the part in below table be sure to parform the related adjustment.

| Part replaced (◪) | Adjustment (⋈) |
|---|---|
| IC502, Q509, Q510, R565, R567, R568, R569 ..... A BOARD | R565 (HOLD-DOWN) |
| IC502, Q509, Q510, D502, C531, R554, R566, R567, R568, R569, R1506, T501 ..... A BOARD | R566 (HOLD-DOWN) |
| IC651, R651 ..... G BOARD | |

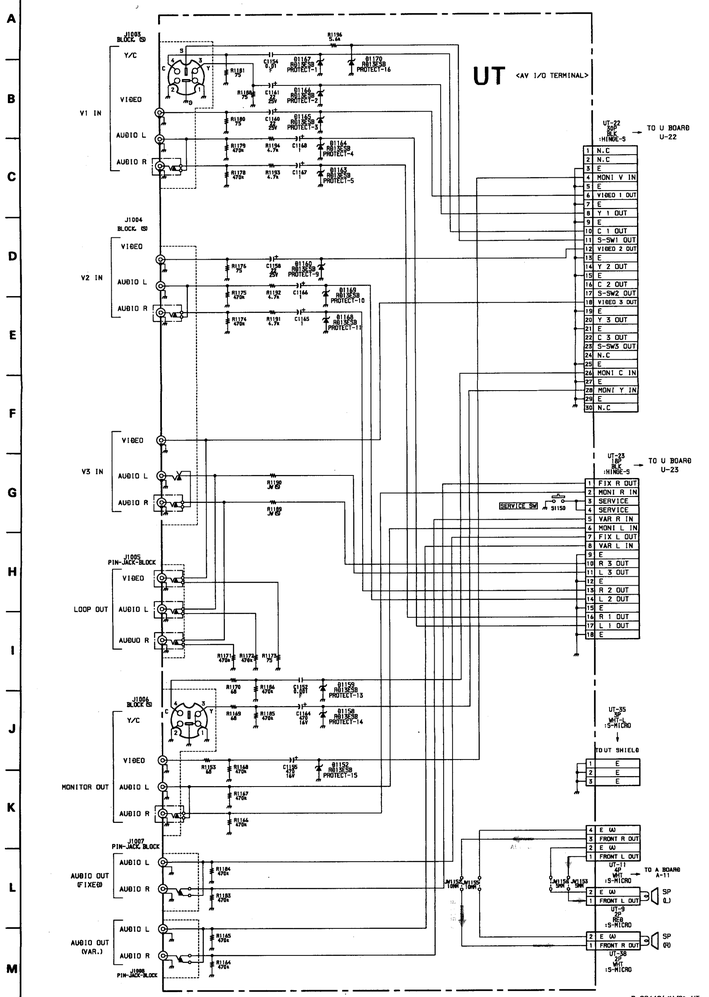
- Readings are taken with a color-bar signal input.
- Readings are taken with a 10 MΩ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerance.
- All voltages are in V.
- : B+ bus.
- : B- bus.
- : signal path.

**Reference information**

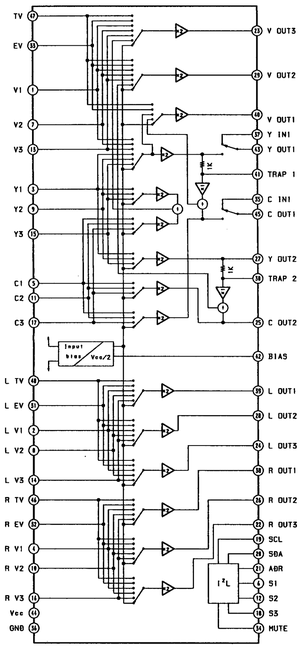
| | | |
|---|---|---|
| RESISTOR | : RN | METAL FILM |
| | : RC | SOLID |
| | : FPRD | NONFLAMMABLE CARBON |
| | : FUSE | NONFLAMMABLE FUSIBLE |
| | : RW | NONFLAMMABLEWIREWOUND |
| | : RS | NONFLAMMABLE METALOXIDE |
| | : RB | NONFLAMMABLE CEMENT |
| | : ※ | ADJUSTMENT RESISTOR |
| COIL | : LF-8L | MICRO INDUCTOR |
| CAPACITOR | : TA | TANTALUM |
| | : PS | STYROL |
| | : PP | POLYPROPYLENE |
| | : PT | MYLAR |
| | : MPS | METALIZED POLYESTER |
| | : MPP | METALIZED POLYPROPYLENE |
| | : ALB | BIPOLAR |
| | : ALT | HIGH TEMPERATURE |
| | : ALR | HIGH RIPPLE |

**Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

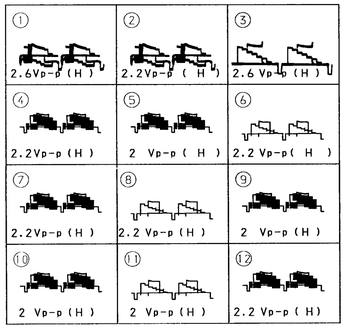
**Note: Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.**

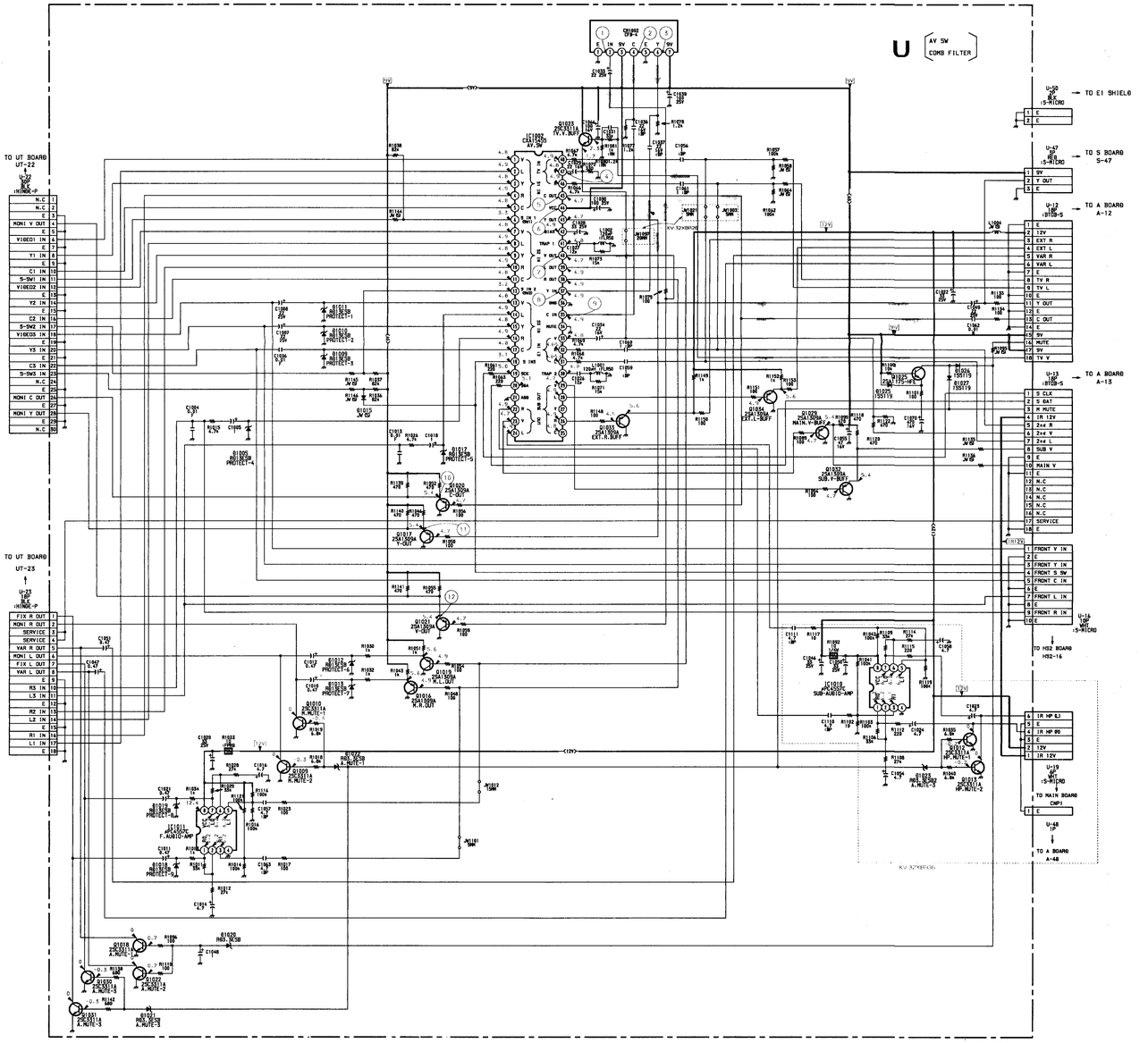



• U BOARD IC1002 CXA1545S




• U BOARD WAVEFORMS

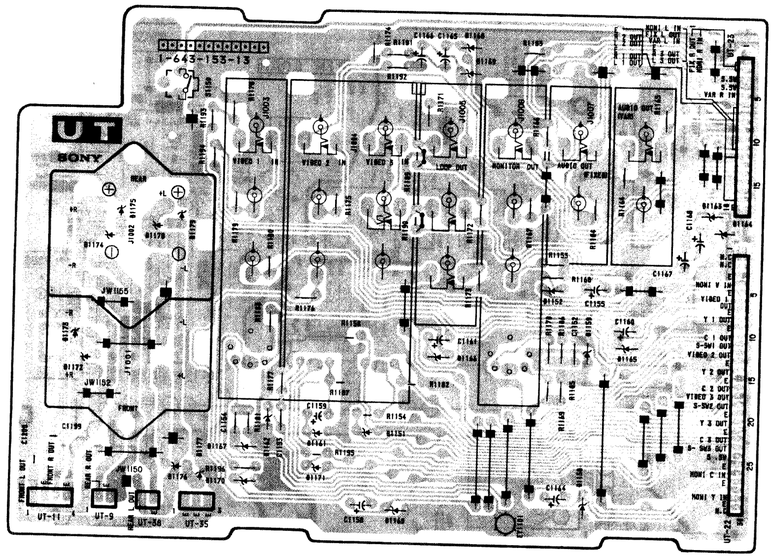


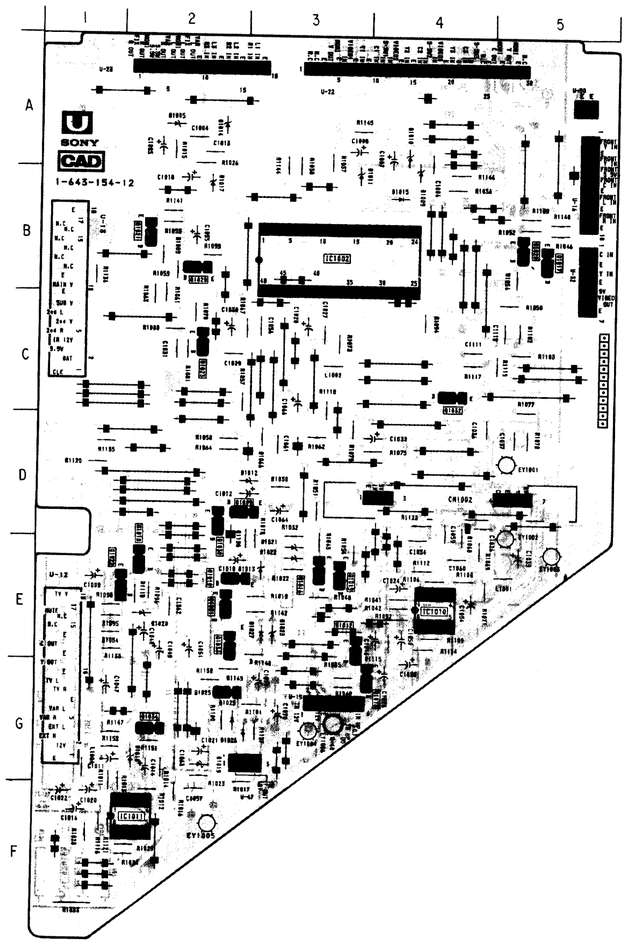
KV-32XBR26/32XBR36
RM-Y112A TDR-IF310/RM-Y113A

**UT** [AV I/O TERMINAL] **U** [AV SW, COMB FILTER]

– UT BOARD –




– U BOARD –




| IC | |
|---|---|
| IC1002 | B – 3 |
| IC1010 | E – 4 |
| IC1011 | F – 2 |

| TRANSISTOR | |
|---|---|
| Q1009 | D – 2 |
| Q1010 | E – 2 |
| Q1012 | G – 3 |
| Q1013 | G – 4 |
| Q1016 | E – 3 |
| Q1017 | B – 5 |
| Q1018 | E – 2 |
| Q1019 | E – 3 |
| Q1020 | B – 5 |
| Q1021 | B – 2 |
| Q1022 | E – 1 |
| Q1023 | C – 2 |
| Q1025 | G – 2 |
| Q1029 | B – 2 |
| Q1030 | D – 2 |
| Q1031 | E – 2 |
| Q1032 | C – 4 |
| Q1033 | E – 2 |
| Q1034 | G – 2 |

| DIODE | |
|---|---|
| D1005 | A – 2 |
| D1009 | B – 4 |
| D1010 | A – 4 |
| D1011 | B – 3 |
| D1012 | D – 3 |
| D1013 | E – 3 |
| D1014 | A – 2 |
| D1015 | B – 4 |
| D1017 | B – 2 |
| D1018 | G – 2 |
| D1019 | G – 2 |
| D1020 | E – 2 |
| D1021 | E – 3 |
| D1022 | E – 3 |
| D1023 | E – 3 |
| D1025 | G – 2 |
| D1026 | G – 2 |
| D1027 | E – 3 |

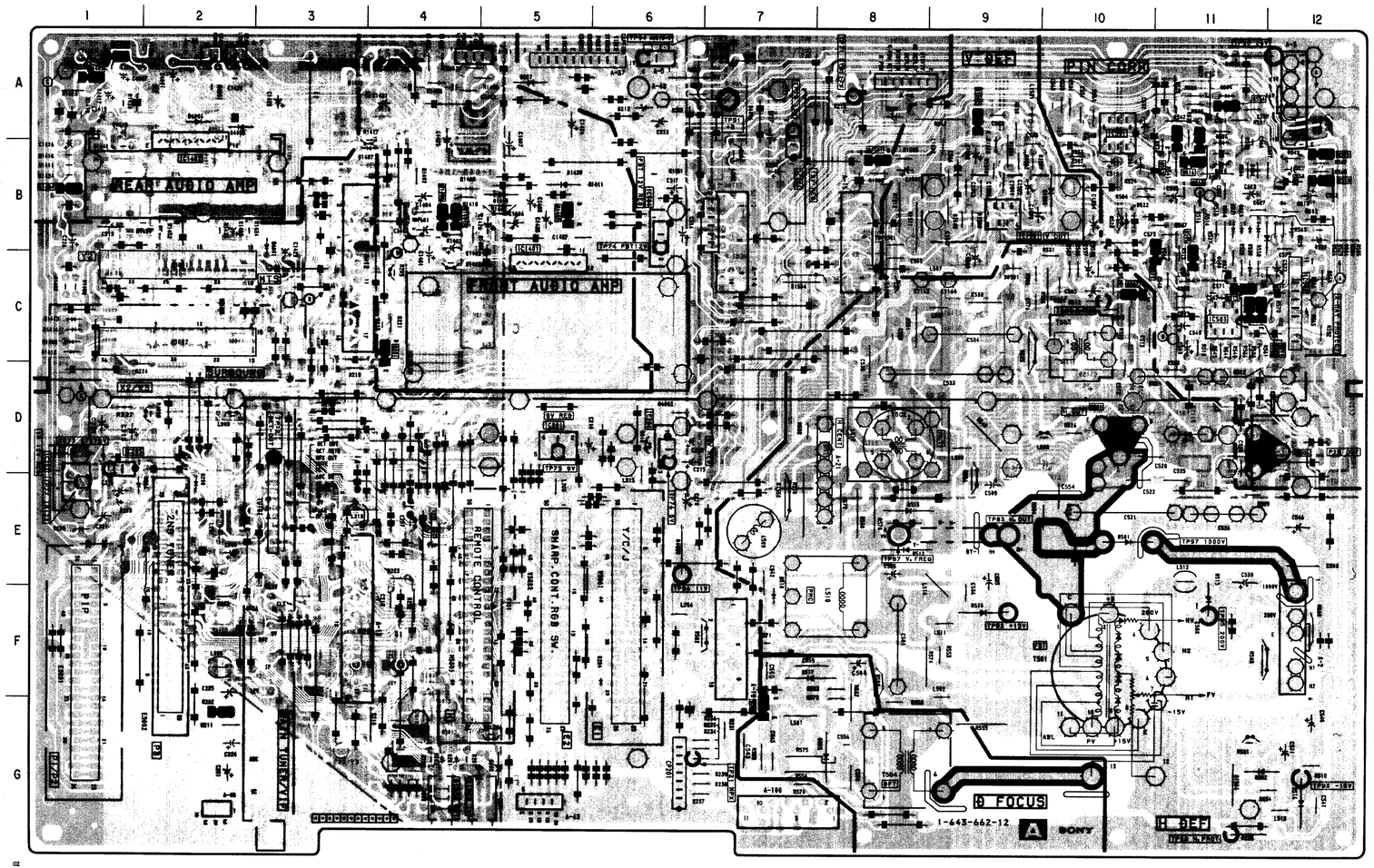
KV-32XBR26/32XBR36 KV-32XBR26/32XBR36
RM-Y112A TDR-IF310/RM-Y113A RM-Y112A TDR-IF310/RM-Y113A

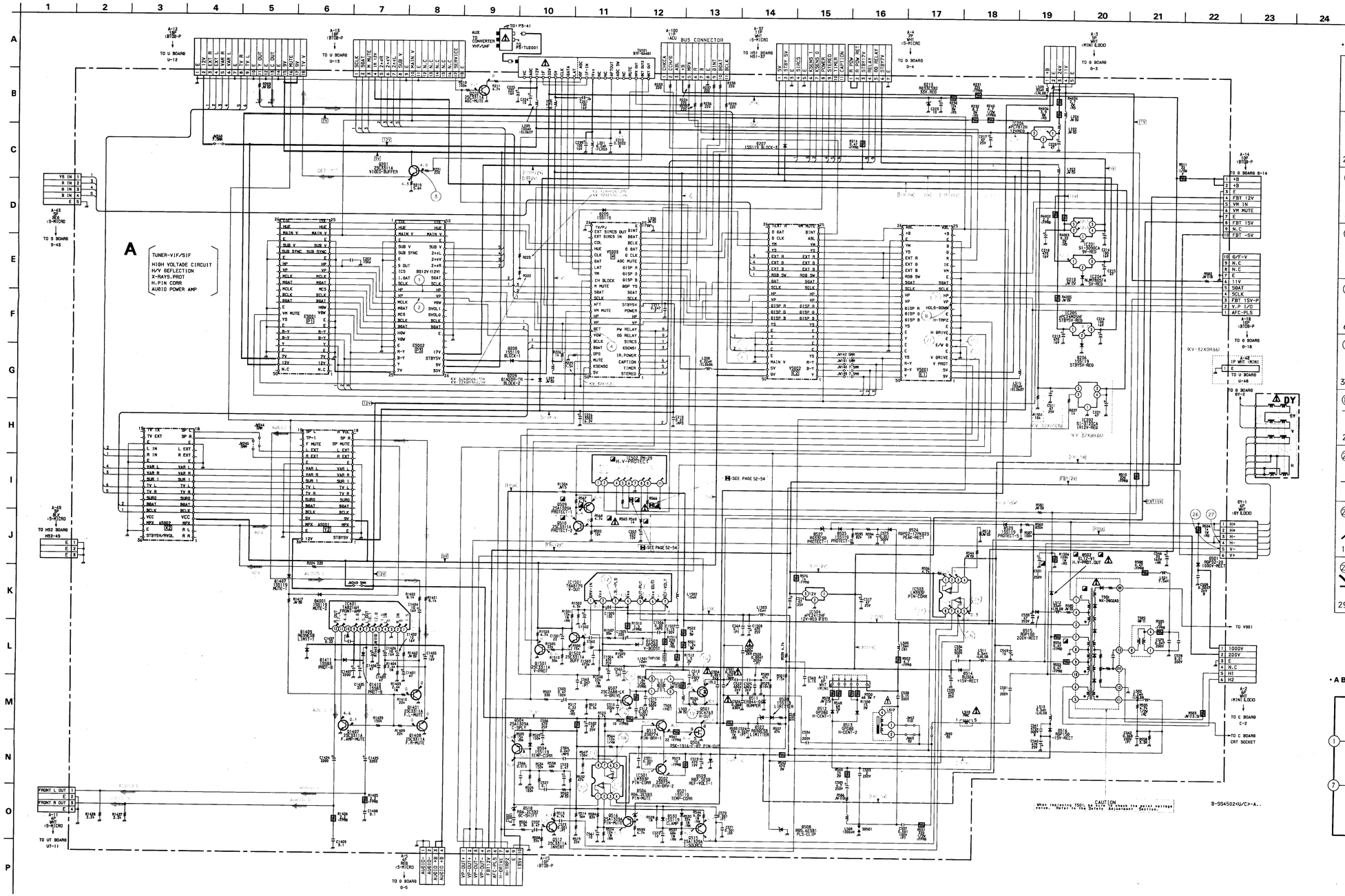
**A** TUNER – VIF/SIF, HIGH VOLTAGE CIRCUIT, H/V DEFLECTION, X – RAYS. PROT, H. PIN CORR, AUDIO POWER AMP.

**– A BOARD –**

| IC | |
|---|---|
| IC201 | D – 5 |
| IC202 | D – 1 |
| IC204 | D – 6 |
| IC205 | D – 1 |
| IC206 | B – 7 |
| IC501 | A – 10 |
| IC502 | C – 12 |
| IC503 | C – 11 |
| IC504 | B – 6 |
| IC1401 | C – 5 |
| IC1501 | B – 9 |
| **TRANSISTOR** | |
| Q201 | C – 4 |
| Q202 | G – 2 |
| Q501 | D – 10 |
| Q502 | A – 11 |
| Q503 | G – 7 |
| Q504 | A – 11 |
| Q505 | B – 11 |
| Q506 | D – 12 |
| Q507 | C – 10 |
| Q508 | C – 11 |
| Q509 | B – 12 |
| Q510 | B – 12 |
| Q511 | C – 11 |
| Q512 | B – 10 |
| Q513 | A – 11 |
| Q515 | C – 11 |
| Q516 | B – 11 |
| Q1401 | B – 4 |
| Q1407 | B – 5 |
| Q1408 | B – 4 |
| Q1501 | B – 8 |
| Q1502 | A – 9 |
| **DIODE** | |
| D205 | G – 5 |
| D206 | E – 1 |
| D207 | A – 5 |
| D208 | E – 2 |
| D209 | E – 1 |
| D213 | A – 6 |
| D501 | E – 10 |
| D502 | G – 11 |
| D503 | G – 8 |
| D504 | A – 11 |
| D506 | A – 11 |
| D508 | C – 11 |
| D509 | A – 8 |
| D510 | F – 7 |
| D511 | D – 11 |
| D512 | E – 8 |
| D513 | E – 8 |
| D514 | F – 9 |
| D515 | F – 11 |
| D516 | G – 12 |
| D517 | F – 7 |
| D518 | B – 11 |
| D521 | B – 11 |
| D522 | B – 10 |
| D524 | B – 11 |
| D525 | B – 12 |
| D527 | B – 12 |
| D529 | B – 11 |
| D530 | B – 11 |
| D1407 | B – 3 |
| D1408 | C – 1 |
| D1409 | A – 4 |
| D1410 | B – 5 |
| D1411 | B – 5 |
| D1412 | C – 1 |
| D1413 | C – 1 |
| D1414 | C – 1 |
| D1503 | B – 10 |
| D4001 | B – 3 |

**NOTE:**
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

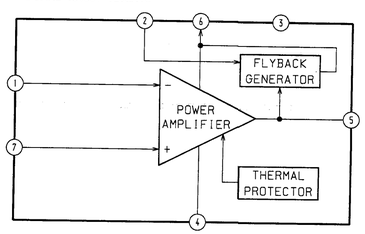




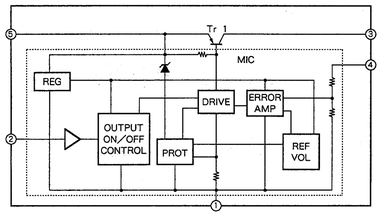

• A BOARD WAVEFORMS

| | | |
|---|---|---|
| ① 5 Vp-p ( H ) | ② 4 Vp-p ( V ) | ③ 2.4 Vp-p ( H ) |
| ④ 2.4 Vp-p ( H ) | ⑤ 2.4Vp-p ( H ) | ⑥ 2.4 Vp-p ( H ) |
| ⑦ 88 Vp-p ( H ) | ⑧ 4.4Vp-p ( V ) | ⑨ 4.2 Vp-p ( H ) |
| ⑩ 2 Vp-p ( V ) | ⑪ 0.6Vp-p ( V ) | ⑫ 30.1Vp-p ( V ) |
| ⑬ 60 Vp-p ( V ) | ⑭ 160Vp-p ( H ) | ⑮ 1000Vp-p ( H ) |
| ⑯ 3.5Vp-p ( H ) | ⑰ 150Vp-p ( H ) | ⑱ 9 Vp-p ( H ) |
| ⑲ 20 Vp-p ( H ) | ⑳ 9.6Vp-p ( H ) | ㉑ 9 Vp-p ( H ) |
| ㉒ 6 Vp-p ( H ) | ㉓ 10 Vp-p ( H ) | ㉔ 6.4Vp-p ( H ) |
| ㉕ 18 Vp-p ( H ) | ㉖ 2.8Vp-p ( V ) | ㉗ 150Vp-p ( H ) |
| ㉘ 290Vp-p ( V ) | | |

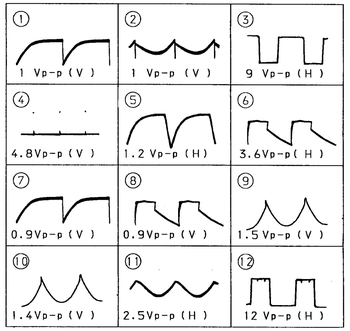
• A BOARD IC1501 TDA8179



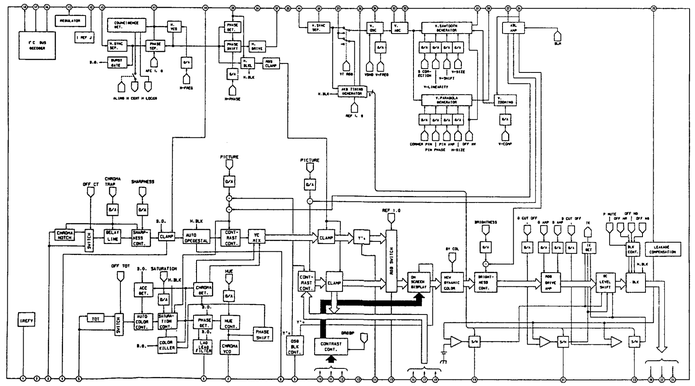
• D BOARD IC801 SI-3090CA



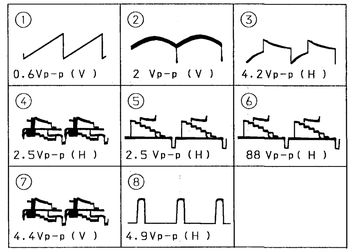

• D BOARD WAVEFORMS

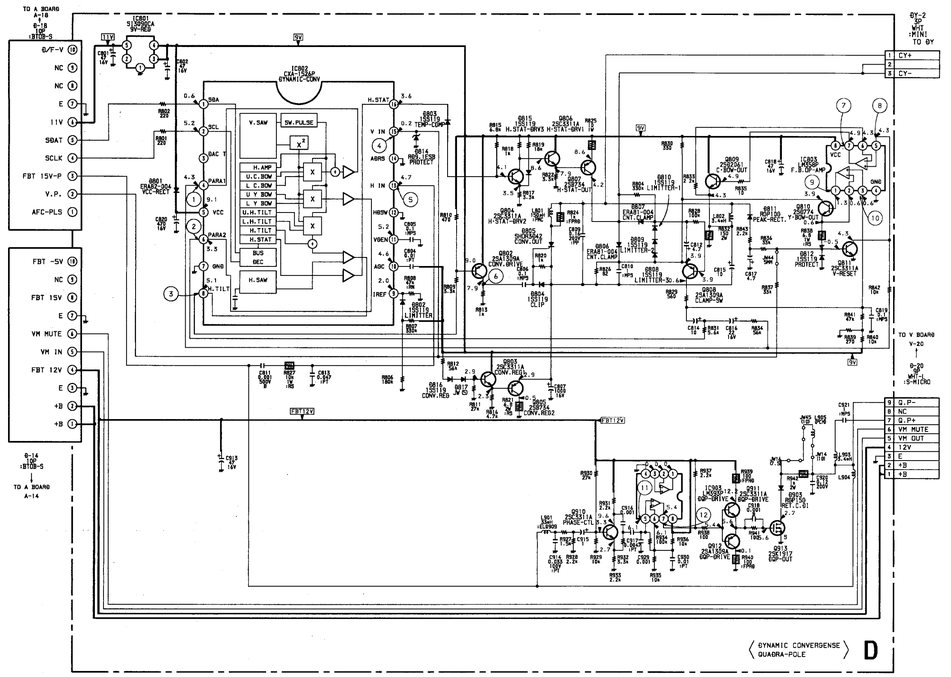



• E1 BOARD IC302 CXA1465AS

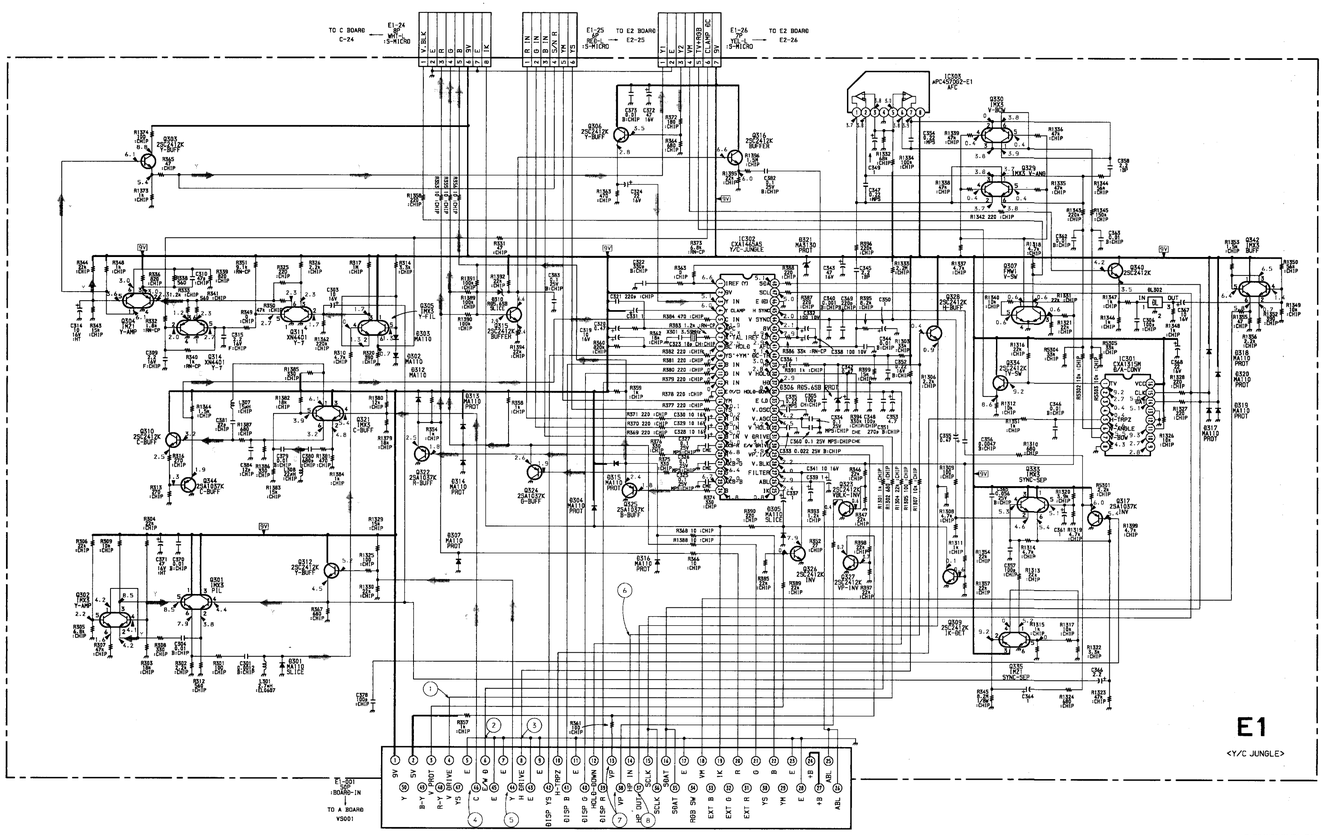


• E1 BOARD WAVEFORMS




B-SS4502<U/C>-8..

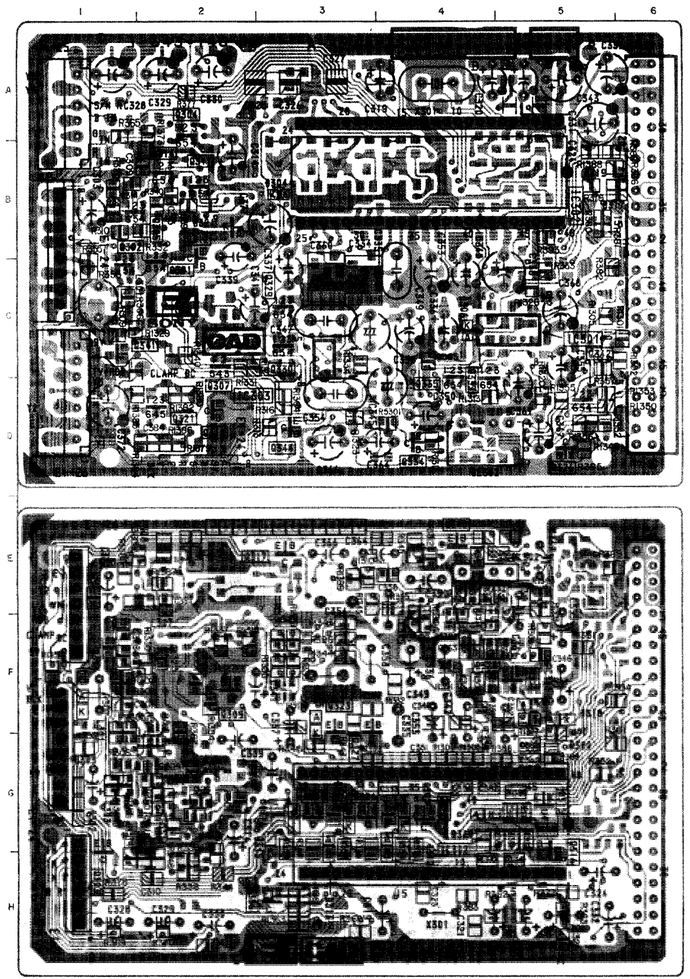



B-SS4502<U/C>-E1.

KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A
KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

**E1** [Y/C JUNGLE] **D** [DYNAMIC CONVERGENSE QUADRA – POLE]

– E1 BOARD –

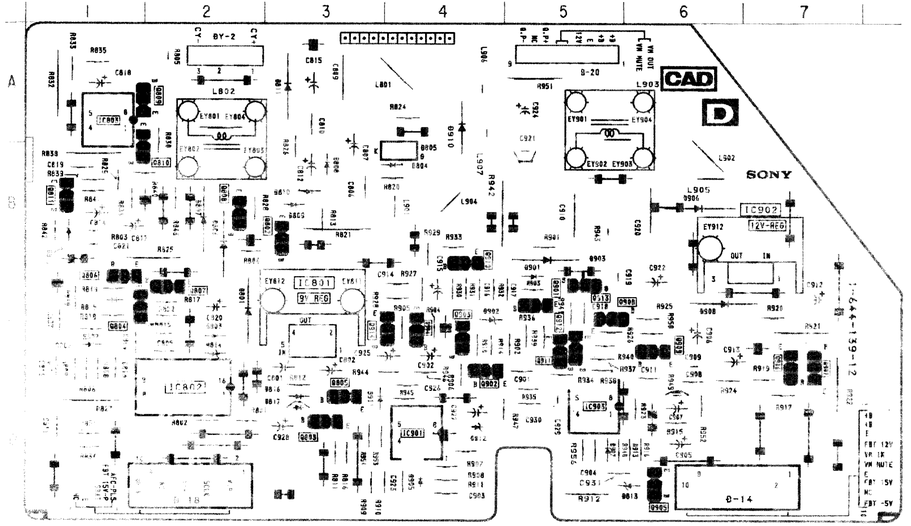


| IC | | DIODE | |
|---|---|---|---|
| IC301 | C – 5 | D301 | F – 1 |
| IC302 | B – 4, G – 4 | D302 | G – 1 |
| IC303 | C – 3 | D303 | G – 1 |
| **TRANSISTOR** | | D304 | B – 3 |
| Q301 | C – 2 | D305 | F – 3 |
| Q302 | C – 1 | D306 | C – 4 |
| Q303 | G – 1 | D307 | G – 4 |
| Q304 | A – 2 | D310 | G – 4 |
| Q305 | B – 1 | D312 | G – 4 |
| Q306 | H – 3 | D313 | G – 3 |
| Q307 | C – 2 | D314 | G – 3 |
| Q309 | F – 2 | D315 | G – 2 |
| Q310 | D – 2 | D316 | G – 3 |
| Q311 | B – 2 | D317 | B – 5 |
| Q312 | B – 2 | D318 | F – 5 |
| Q314 | B – 2 | D319 | B – 5 |
| Q315 | G – 5 | D320 | G – 5 |
| Q316 | G – 5 | D321 | B – 2 |
| Q317 | E – 3 | | |
| Q321 | D – 2 | | |
| Q322 | G – 4 | | |
| Q323 | F – 3 | | |
| Q324 | G – 3 | | |
| Q325 | G – 3 | | |
| Q326 | D – 5 | | |
| Q327 | G – 3 | | |
| Q328 | F – 5 | | |
| Q329 | C – 3 | | |
| Q330 | C – 3 | | |
| Q333 | D – 4 | | |
| Q334 | D – 4 | | |
| Q335 | D – 4 | | |
| Q340 | E – 4 | | |
| Q342 | D – 5 | | |
| Q344 | D – 3 | | |

Note :

- : Pattern from the side which is viewed.
- : Pattern of the rear side.

– D BOARD –



| IC | | DIODE | |
|---|---|---|---|
| IC802 | D – 2 | D801 | C – 2 |
| IC803 | A – 1 | D802 | C – 1 |
| IC903 | D – 5 | D803 | C – 2 |
| **TRANSISTOR** | | D804 | B – 4 |
| Q802 | B – 3 | D805 | B – 4 |
| Q803 | D – 4 | D806 | B – 2 |
| Q804 | C – 1 | D807 | B – 2 |
| Q805 | D – 3 | D808 | B – 3 |
| Q806 | C – 1 | D809 | B – 3 |
| Q807 | C – 2 | D810 | B – 3 |
| Q808 | B – 2 | D811 | A – 3 |
| Q809 | A – 1 | D812 | B – 1 |
| Q810 | B – 2 | D813 | D – 6 |
| Q811 | B – 1 | D814 | C – 2 |
| Q910 | B – 4 | D815 | C – 1 |
| Q911 | C – 5 | D816 | D – 3 |
| Q912 | C – 5 | D903 | B – 5 |
| Q913 | C – 5 | | |

KV-32XBR26/32XBR36
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KV-32XBR26/32XBR36
RM-Y112A TDR-IF310/RM-Y113A

## G [POWER SUPPLY, DEGAUSSING CIRCUIT]

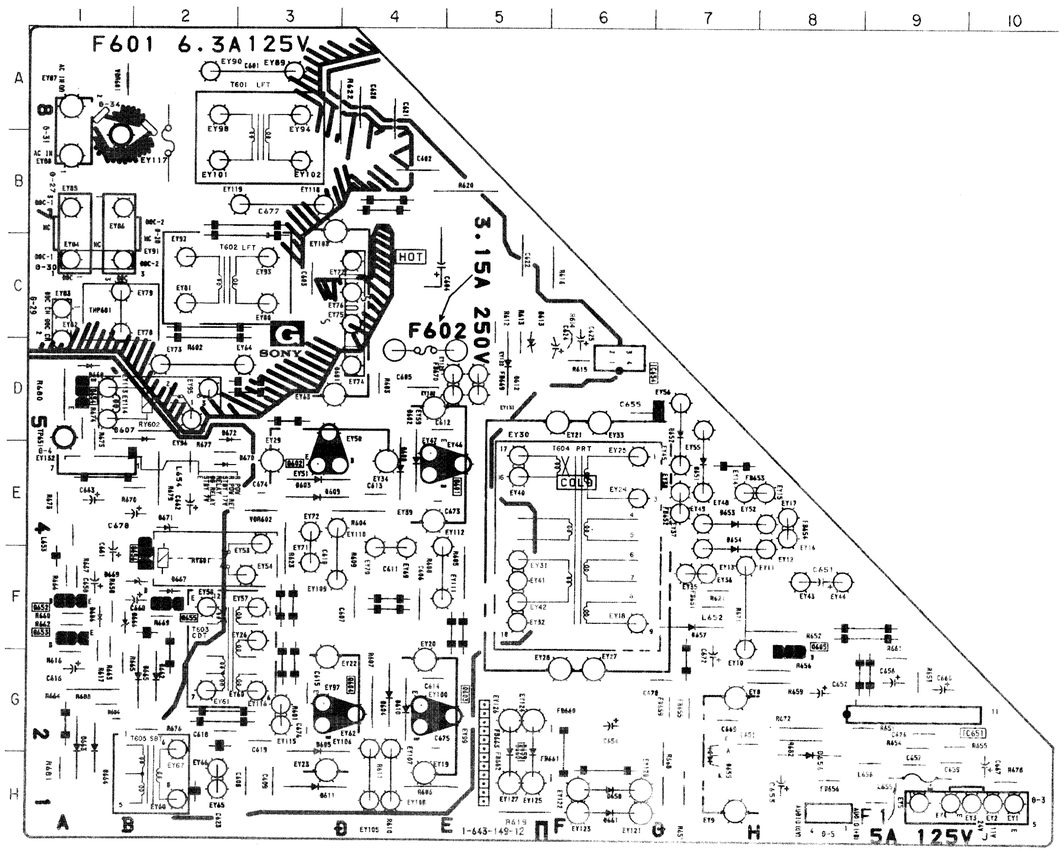
## E2 [SHARPNESS CONT, CHARACTOR GENERATER]

– G BOARD –

| IC | |
|---|---|
| IIC651 | G – 9 |
| IC654 | D – 6 |

| TRANSISTOR | |
|---|---|
| Q601 | E – 5 |
| Q602 | E – 3 |
| Q603 | G – 5 |
| Q604 | G – 4 |
| Q605 | F – 8 |
| Q652 | F – 1 |
| Q653 | F – 1 |
| Q654 | D – 1 |
| Q655 | F – 2 |
| Q656 | F – 2 |

| DIODE | |
|---|---|
| D601 | C – 4 |
| D602 | E – 4 |
| D603 | E – 3 |
| D604 | G – 4 |
| D605 | G – 3 |
| D606 | F – 1 |
| D607 | D – 2 |
| D608 | E – 4 |
| D609 | E – 3 |
| D610 | G – 4 |
| D611 | H – 3 |
| D612 | D – 5 |
| D613 | D – 5 |
| D651 | E – 7 |
| D652 | D – 7 |
| D653 | E – 7 |
| D654 | F – 7 |
| D655 | H – 7 |
| D656 | H – 8 |
| D657 | F – 7 |
| D658 | H – 6 |
| D659 | G – 5 |
| D660 | G – 5 |
| D661 | H – 6 |
| D663 | G – 1 |
| D665 | G – 2 |
| D666 | F – 1 |
| D667 | F – 2 |
| D668 | D – 1 |
| D669 | F – 2 |
| D670 | E – 2 |
| D671 | E – 2 |
| D672 | D – 2 |




– E2 BOARD –

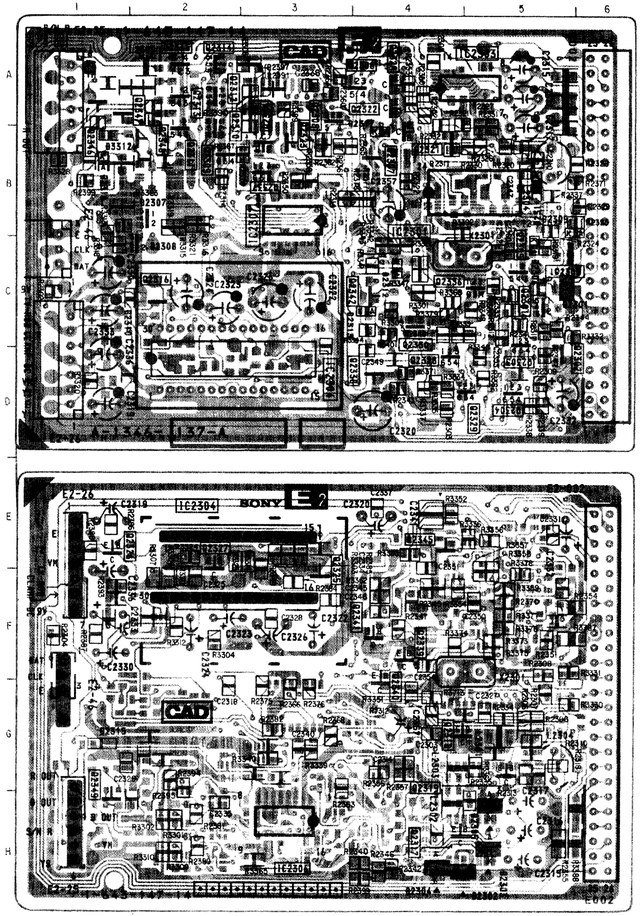
Note :

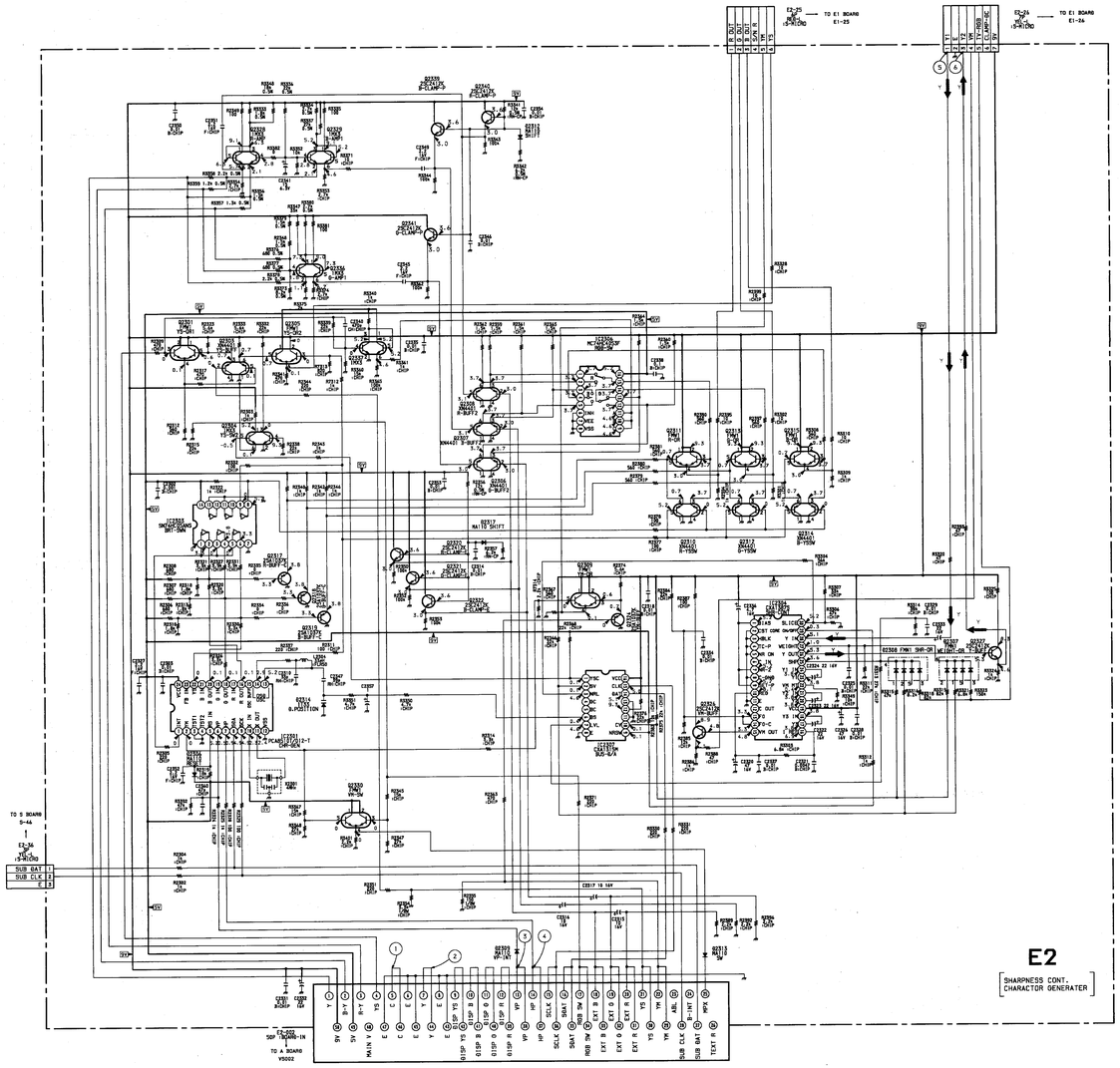
* ▒▒▒ : Pattern of the rear side.

| IC | |
|---|---|
| IC2031 | B – 4 |
| IC2303 | A – 5 |
| IC2304 | D – 3, E – 2 |
| IC2306 | H – 3 |
| IC2307 | B – 3 |

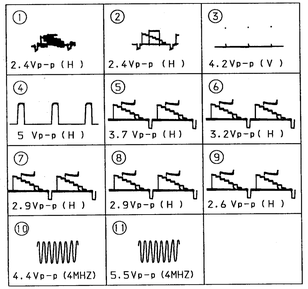
| TRANSISTOR | |
|---|---|
| Q2301 | C – 5 |
| Q2303 | C – 5 |
| Q2304 | D – 5 |
| Q2305 | C – 5 |
| Q2306 | A – 3 |
| Q2307 | B – 4 |
| Q2308 | A – 3 |
| Q2309 | B – 2 |
| Q2310 | A – 2 |
| Q2311 | A – 2 |
| Q2312 | A – 2 |
| Q2313 | A – 2 |
| Q2314 | A – 2 |
| Q2315 | A – 2 |
| Q2317 | H – 4 |
| Q2318 | G – 4 |
| Q2319 | G – 5 |
| Q2320 | A – 4 |
| Q2321 | A – 4 |
| Q2322 | A – 4 |
| Q2324 | B – 3 |
| Q2326 | E – 1 |
| Q2327 | E – 2 |
| Q2328 | D – 4 |
| Q2329 | D – 4 |
| Q2330 | C – 4 |
| Q2336 | C – 5 |
| Q2337 | B – 3 |
| Q2339 | F – 4 |
| Q2340 | F – 4 |
| Q2341 | F – 4 |

| DIODE | |
|---|---|
| D2306 | C – 5 |
| D2307 | B – 2 |
| D2308 | B – 2 |
| D2309 | B – 2 |
| D2312 | C – 4 |
| D2313 | C – 4 |
| D2314 | B – 5 |
| D2317 | A – 4 |

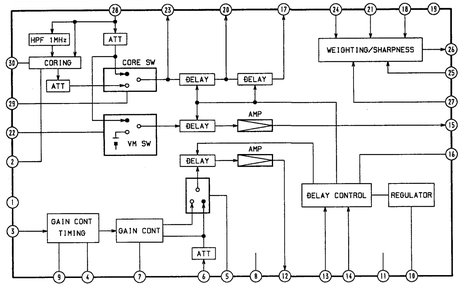


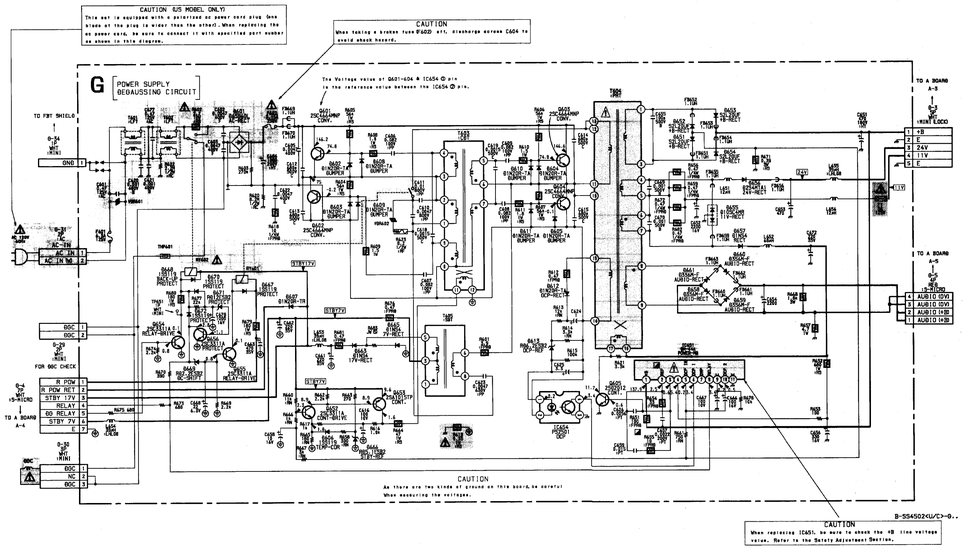


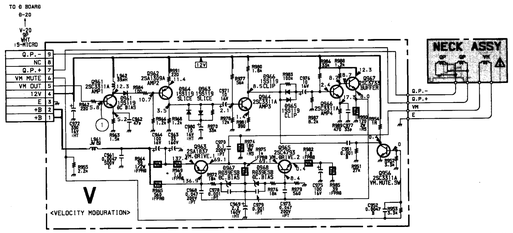

• E2 BOARD WAVEFORMS



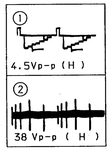

• E2 BOARD IC2304 CXA1387S

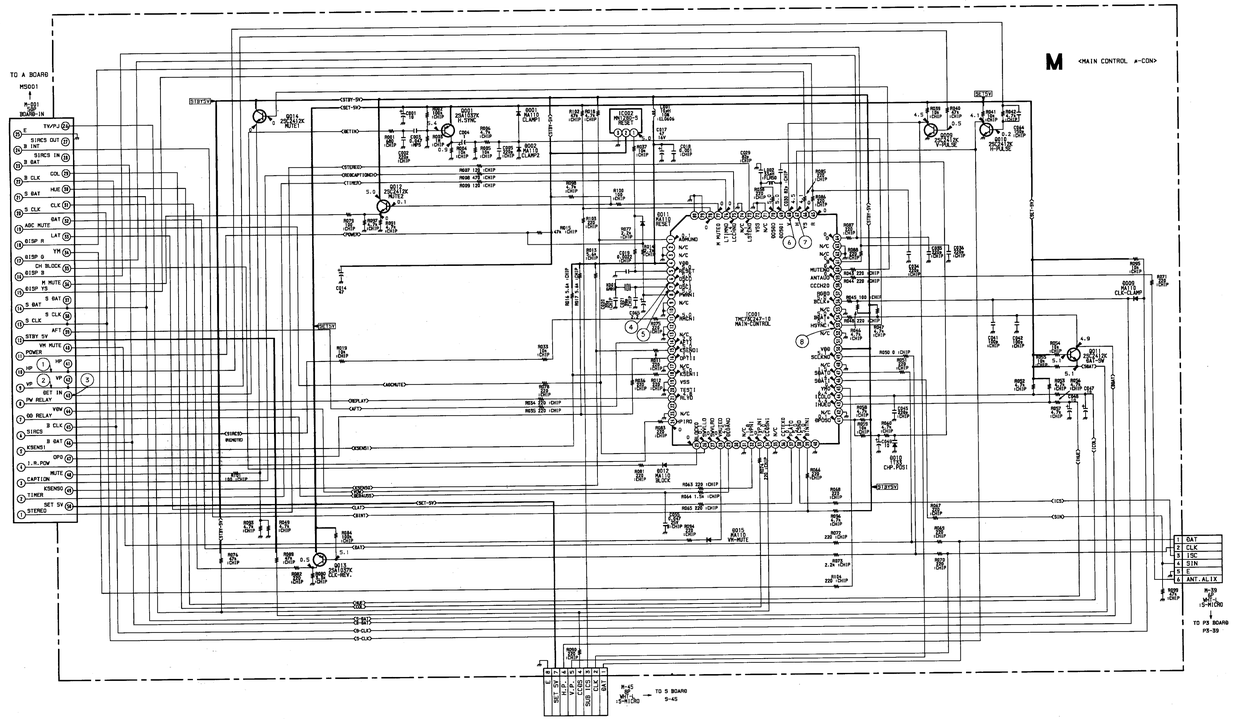


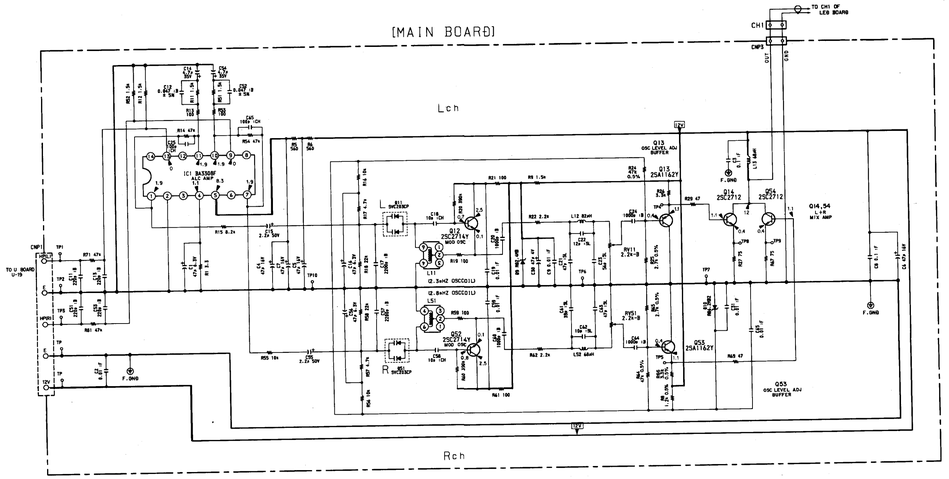



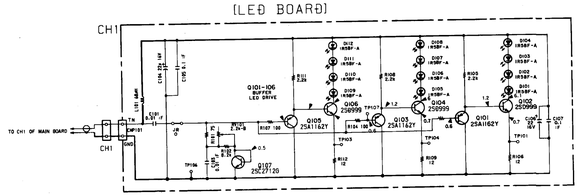


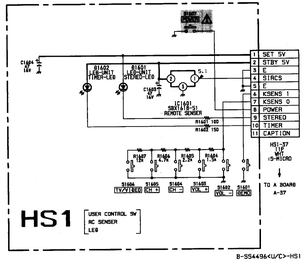

• V BOARD WAVEFORMS



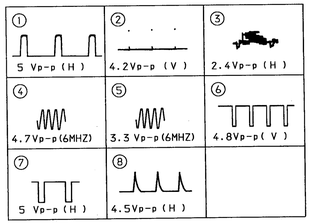



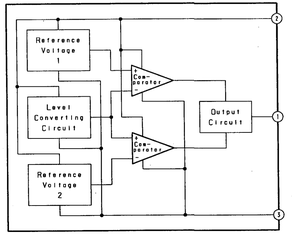



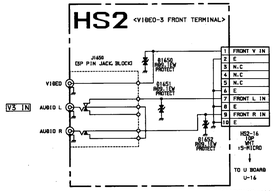




• M BOARD WAVEFORMS




• M BOARD IC002 MN1280-S

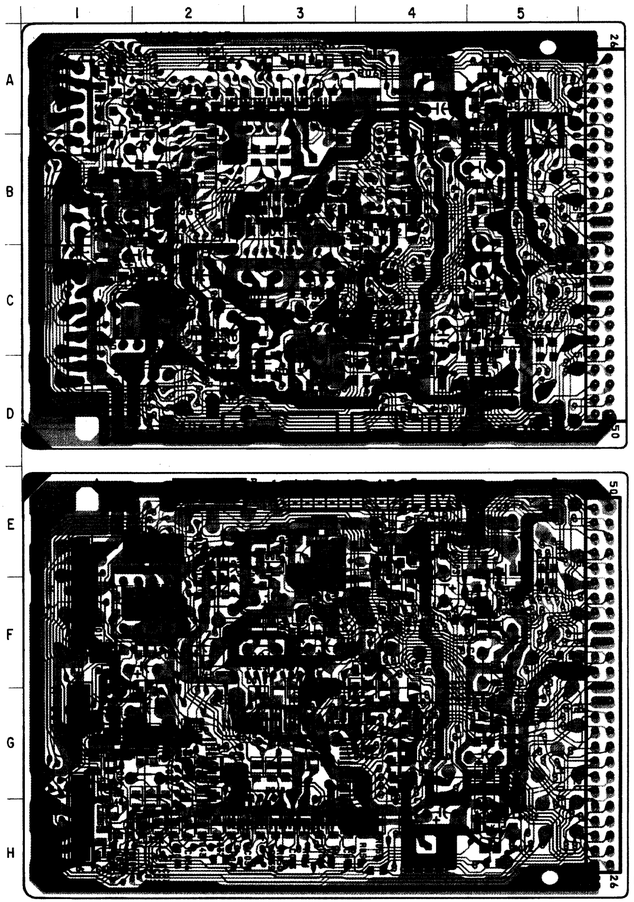


KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

**M** [MAIN CONTROL μ-CON] **HS1** [USER CONTROL SW, RC SENSE, LED] **HS2** [VIDEO-3 FRONT TERMINAL] **V** [VELOCITY MODURATION] **LED** [EMITTER] **MAIN** [MODULATOR]

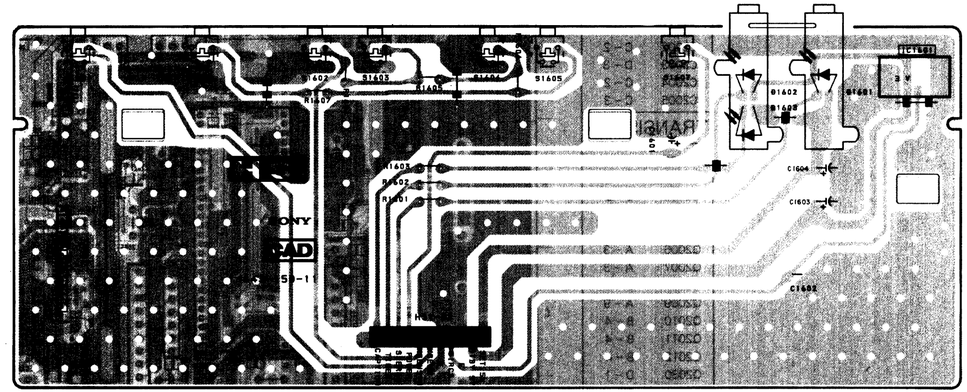
– M BOARD –



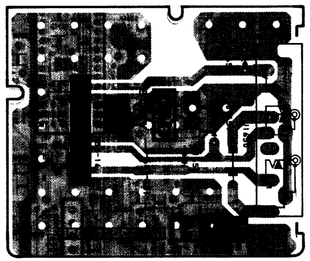
| IC | |
|---|---|
| IC001 | C-1 |
| IC002 | D-2, E-2 |
| **TRANSISTOR** | |
| Q001 | G-5 |
| Q009 | G-1 |
| Q010 | H-1 |
| Q011 | F-1 |
| Q012 | C-5 |
| Q013 | A-5 |
| Q014 | C-4 |
| **DIODE** | |
| D001 | H-5 |
| D002 | H-5 |
| D009 | F-1 |
| D010 | A-4 |
| D011 | D-2 |
| D012 | B-4 |
| D014 | A-1 |
| D015 | B-4 |

Note :
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

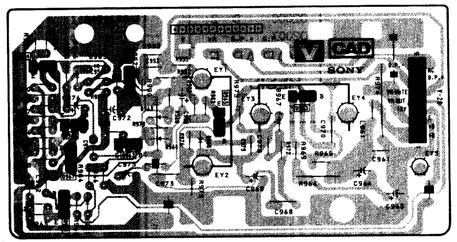
– HS1 BOARD –



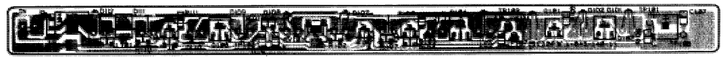
– HS2 BOARD –



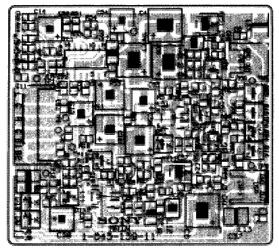
– V BOARD –



– LED BOARD – (KV-32XBR36 ONLY)



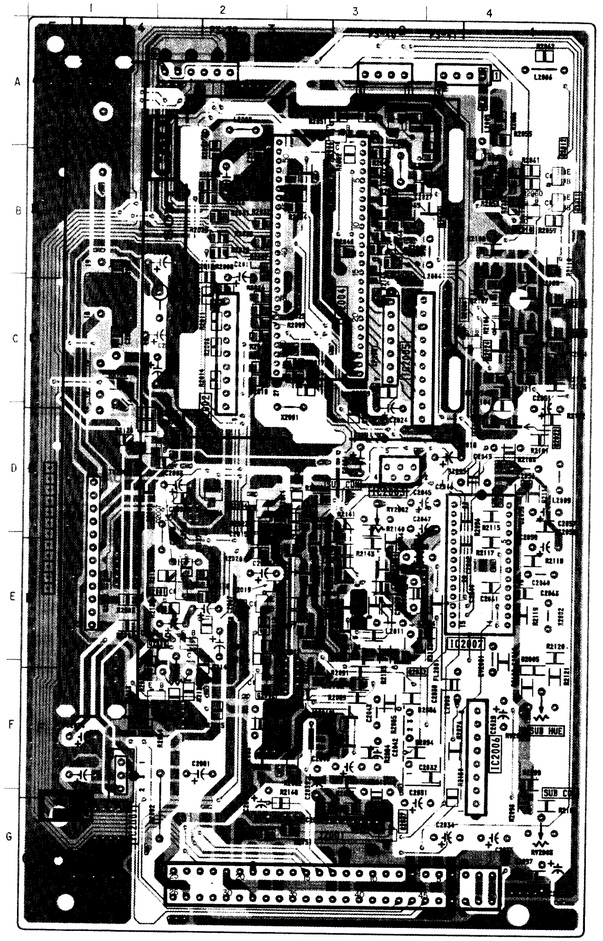
– MAIN BOARD – (KV-32XBR36 ONLY)



KV-32XBR26/32XBR36
RM-Y112A TDR-IF310/RM-Y113A

**P3** [2ND CONT, μ – CON FOR PIP, 2ND TUNER – VIF/SIF FOR PIP, Y/C JUNGLE FOR PIP, ANT SW CONT.] **P1** [PICTURE IN PICTURE]

**– P3 BOARD – (KV-32XBR36 ONLY )**



| IC | |
|---|---|
| IC2001 | F – 1 |
| IC2002 | C – 2 |
| IC2003 | D – 3 |
| IC2004 | C – 2 |
| IC2005 | C – 3 |

| TRANSISTOR | |
|---|---|
| Q2001 | E – 1 |
| Q2002 | F – 2 |
| Q2003 | E – 3 |
| Q2004 | D – 3 |
| Q2005 | B – 3 |
| Q2006 | A – 3 |
| Q2007 | A – 3 |
| Q2008 | E – 1 |
| Q2009 | A – 9 |
| Q2010 | B – 4 |
| Q2011 | B – 4 |
| Q2012 | B – 4 |
| Q2030 | D – 1 |
| Q2031 | F – 1 |
| Q2036 | C – 4 |
| Q2037 | G – 3 |

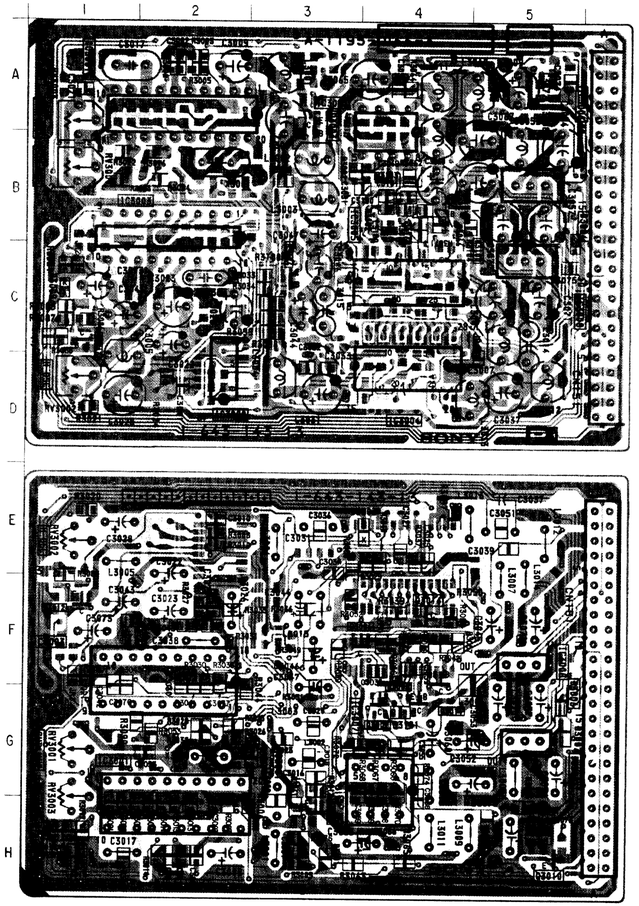
| DIODE | |
|---|---|
| D2006 | D – 2 |
| D2007 | D – 1 |

| VARIABLE RESISTOR | |
|---|---|
| RV2001 | F – 1 |

Note :
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

**– P1 BOARD –**

Note :
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.



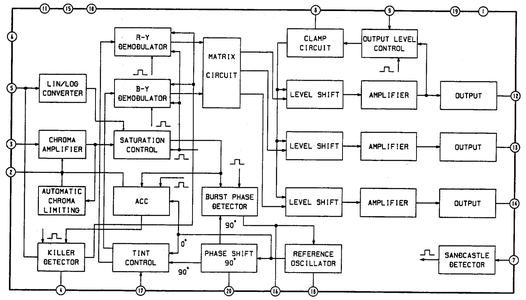
| IC | |
|---|---|
| IC3001 | A – 2, G – 2 |
| IC3002 | D – 2 |
| IC3003 | B – 2, F – 2 |
| IC3004 | D – 4 |
| IC3005 | C – 4 |
| IC3006 | B – 5, G – 5 |
| IC3007 | A – 4, G – 4 |
| IC3008 | C – 5, F – 5 |

| TRANSISTOR | |
|---|---|
| Q3003 | A – 3 |
| Q3004 | C – 3 |
| Q3006 | F – 4 |
| Q3007 | G – 4 |
| Q3008 | H – 3 |
| Q3009 | G – 4 |
| Q3010 | H – 5 |
| Q3011 | F – 4 |
| Q3012 | F – 1 |
| Q3013 | C – 1 |
| Q3014 | F – 4 |
| Q3100 | B – 4 |

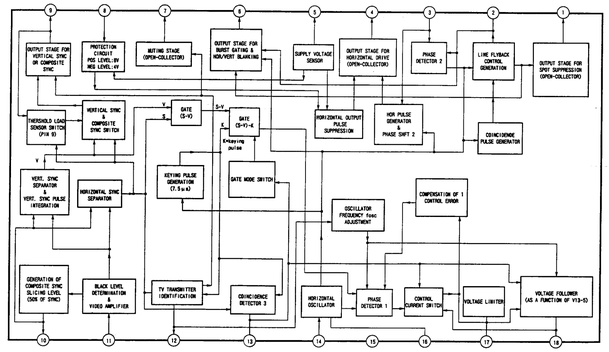
| DIODE | |
|---|---|
| D3003 | E – 4 |
| D3004 | B – 5 |
| D3009 | C – 1 |

| VARIABLE RESISTOR | |
|---|---|
| RV3001 | B – 1, G – 1 |
| RV3002 | D – 1, E – 1 |
| RV3003 | A – 1, G – 1 |

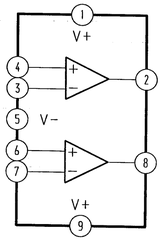
• P1 BOARD IC3001 TDA3769



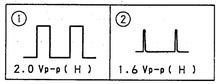

• P1 BOARD IC3003 TDA2595/V9


OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE SYNC
PROTECTION CIRCUIT AND LEVEL-IN MEG LEVEL-V
MUTING STAGE (OPEN-COLLECTOR)
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HOR/ZONTAL DRIVE (OPEN-COLLECTOR)
PHASE DETECTOR 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION (OPEN-COLLECTOR)
THRESHOLD LOAD SENSOR SWITCH (FOR V)
VERTICAL SYNC & COMPOSITE SYNC SWITCH
GATE (S-I-V)
GATE (S-I-H)
HORIZONTAL OUTPUT PULSE SUPPRESSION
HOR PULSE GENERATOR & PHASE SHIFT 2
COINCIDENCE PULSE GENERATOR
VERT. SYNC SEPARATOR & VERT. SYNC PULSE INTEGRATION
HORIZONTAL SYNC SEPARATOR
KEYING PULSE GENERATION (7.5±x)
GATE MODE SWITCH
OSCILLATOR FREQUENCY FUNC ADJUSTMENT
COMPENSATION OF 1 CONTROL SYNCHR.
GENERATION OF COMPOSITE SYNC SLICING LEVEL (SUM OF SYNC)
BLACK LEVEL DETERMINATION & VIDEO AMPLIFIER
TV TRANSMITTER IDENTIFICATION
COINCIDENCE DETECTOR 3
HORIZONTAL OSCILLATOR
PHASE DETECTOR 1
CONTROL CURRENT SWITCH
VOLTAGE LIMITER
VOLTAGE FOLLOWER (AS A FUNCTION OF V13-15)

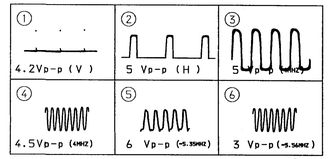
• P3 BOARD IC2002 NJM2903S

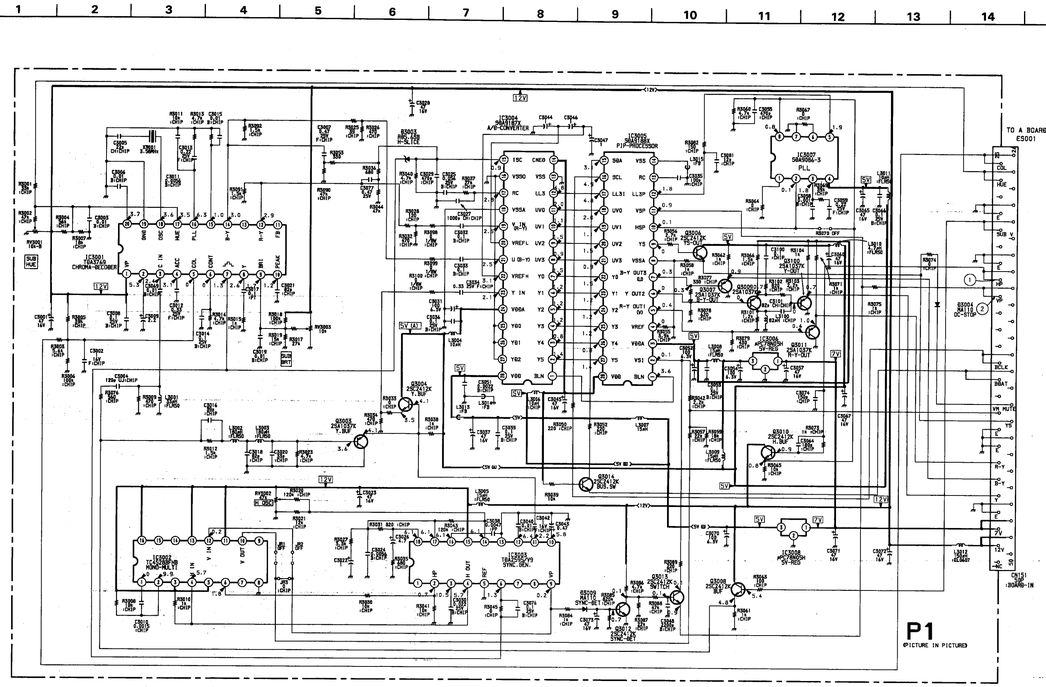


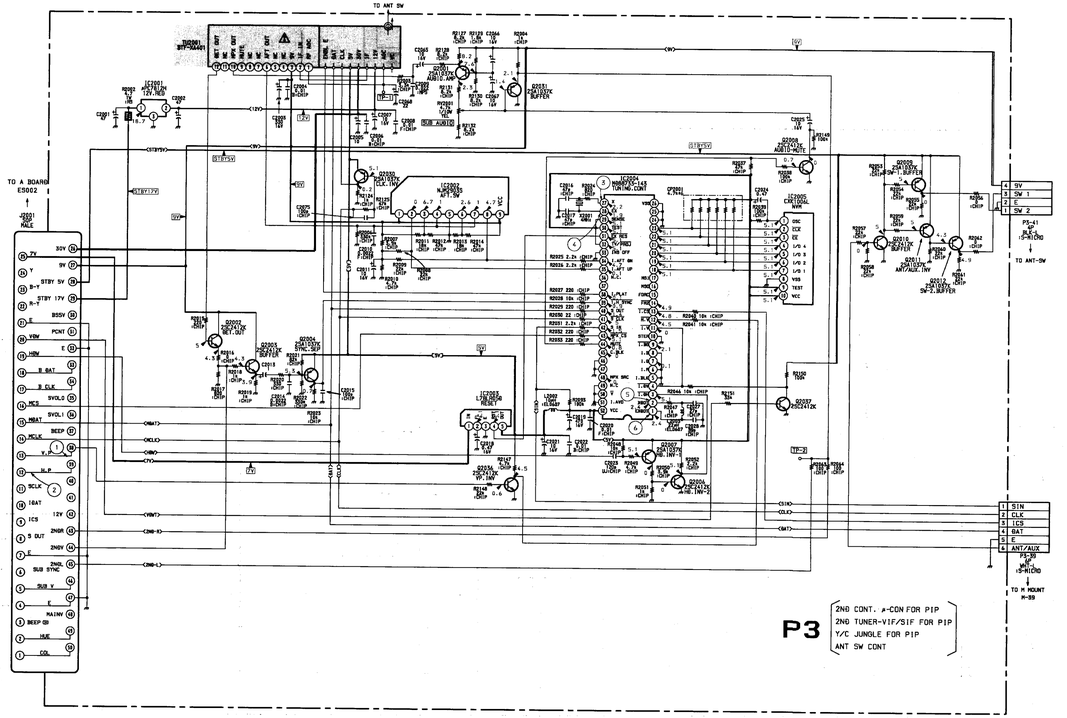

• P1 BOARD WAVEFORMS

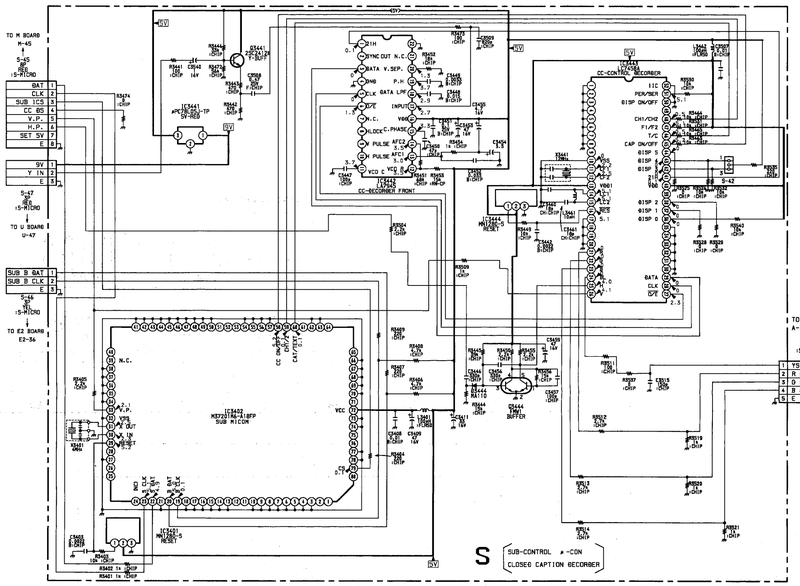


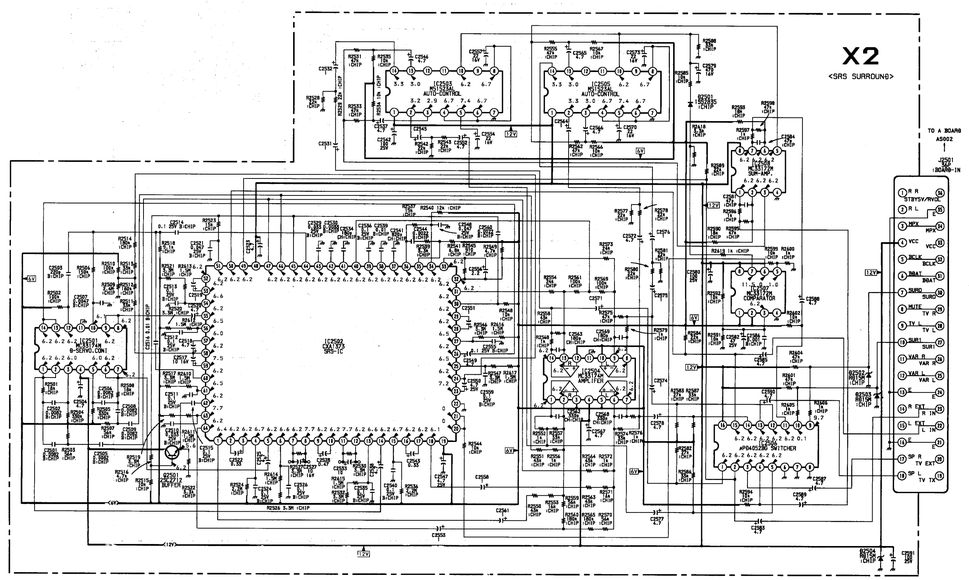

• P3 BOARD WAVEFORMS

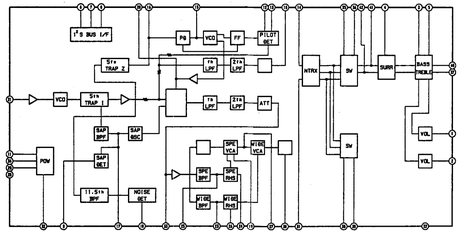


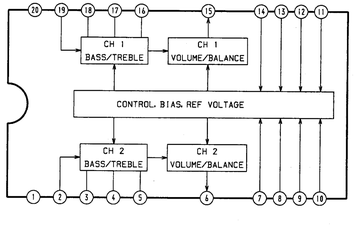



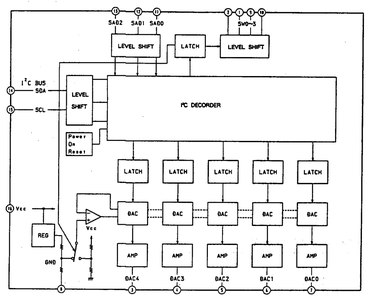



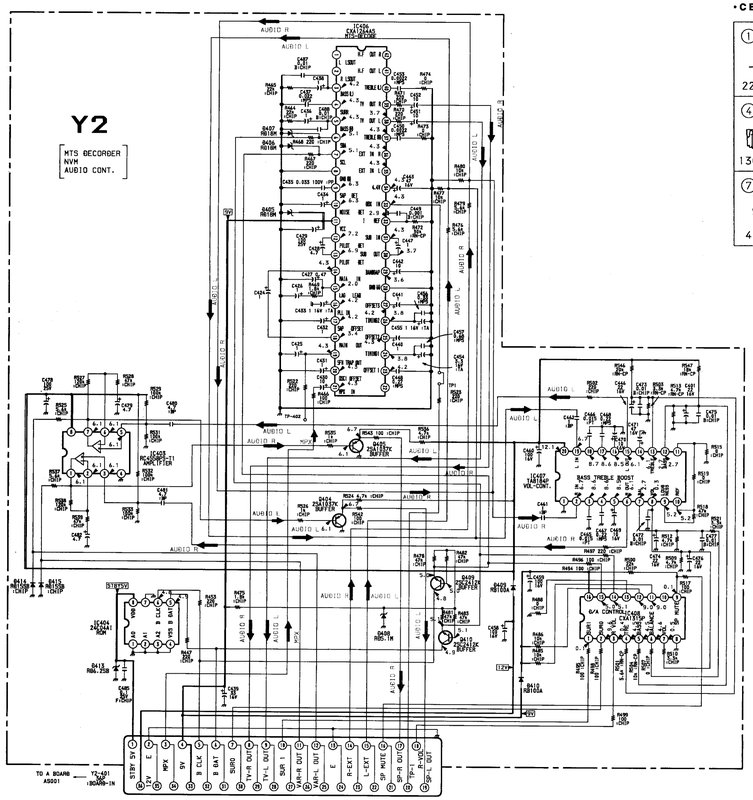


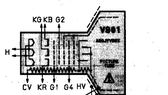



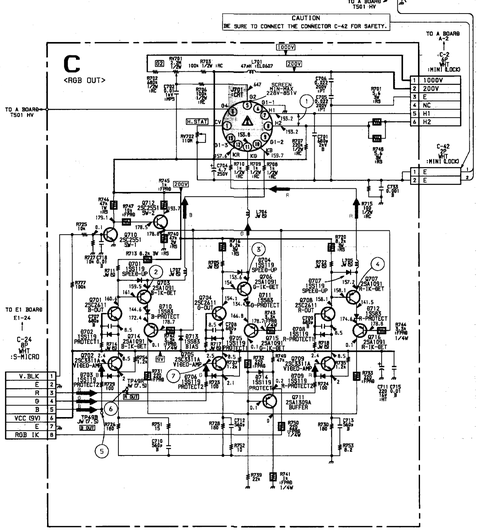




• C BOARD WAVEFORMS

| | | |
|---|---|---|
| ① 22 Vp-p (H) | ② 110Vp-p (H) | ③ 130Vp-p (H) |
| ④ 130Vp-p (H) | ⑤ 4 Vp-p (H) | ⑥ 4 Vp-p (H) |
| ⑦ 4 Vp-p (H) | | |



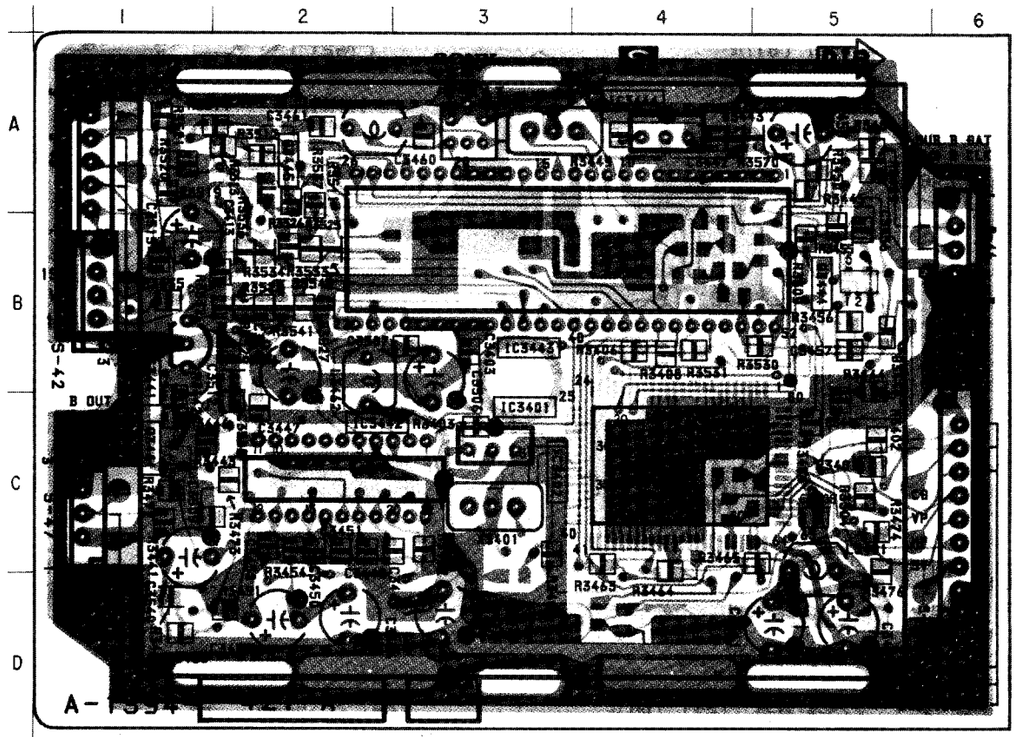



KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

**S** [SUB – CONTROL, μ – CON, CLOSED CAPTION DECORDER] **X2** [SRS SURROUND] **Y2** [MTS DECORDER, NVM, AUDIO CONT] **C** [R G B OUT]

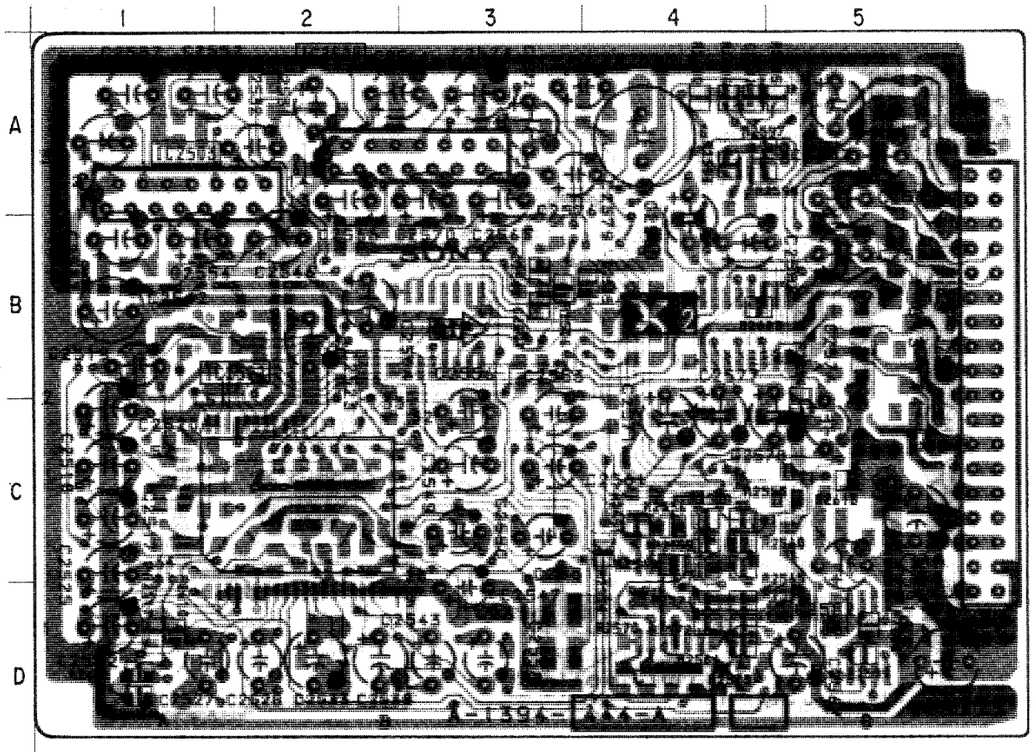
Note :
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

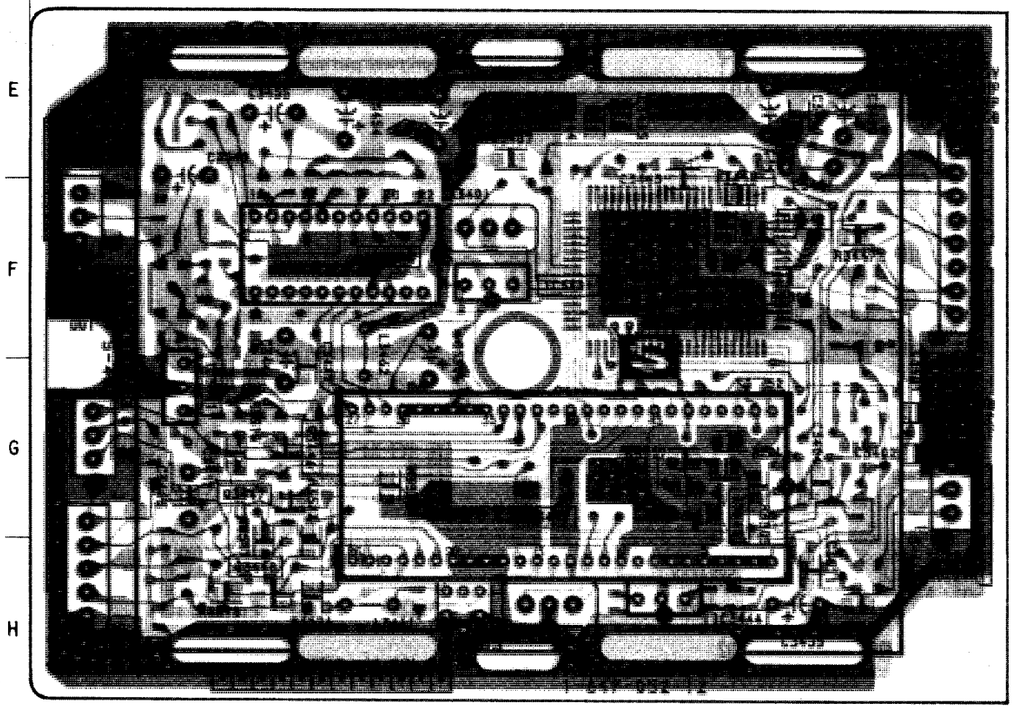
– S BOARD –



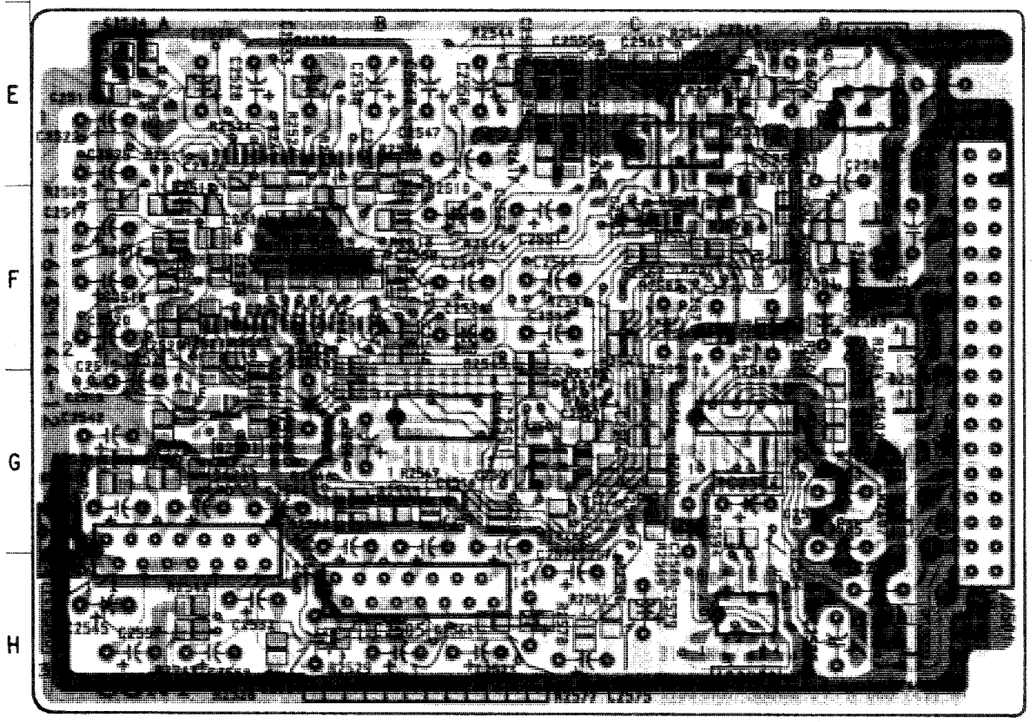
| IC | |
|---|---|
| IC3401 | C – 3, F – 3 |
| IC3402 | C – 4 |
| IC3441 | B – 1, G – 1 |
| IC3442 | C – 2, F – 2 |
| IC3443 | B – 3, G – 3 |
| IC3444 | A – 4, H – 4 |
| **TRANSISTOR** | |
| C3441 | C – 1 |
| C3444 | B – 5 |
| **DIODE** | |
| D3444 | B – 5 |

– X2 BOARD –





| IC | | |
|---|---|---|
| IC2501 | | G – 3 |
| IC2502 | C – 2 | |
| IC2503 | A – 1 | H – 1 |
| IC2504 | | E – 4 |
| IC2505 | A – 2 | H – 2 |
| IC2506 | | G – 4 |
| IC2507 | | E – 5 |
| IC2508 | | H – 4 |
| **TRANSISTOR** | | |
| Q2501 | G – 2 | |
| **DIODE** | | |
| D2501 | | F – 5 |
| D2502 | | F – 5 |
| D2503 | | G – 5 |
| D2504 | | F – 5 |



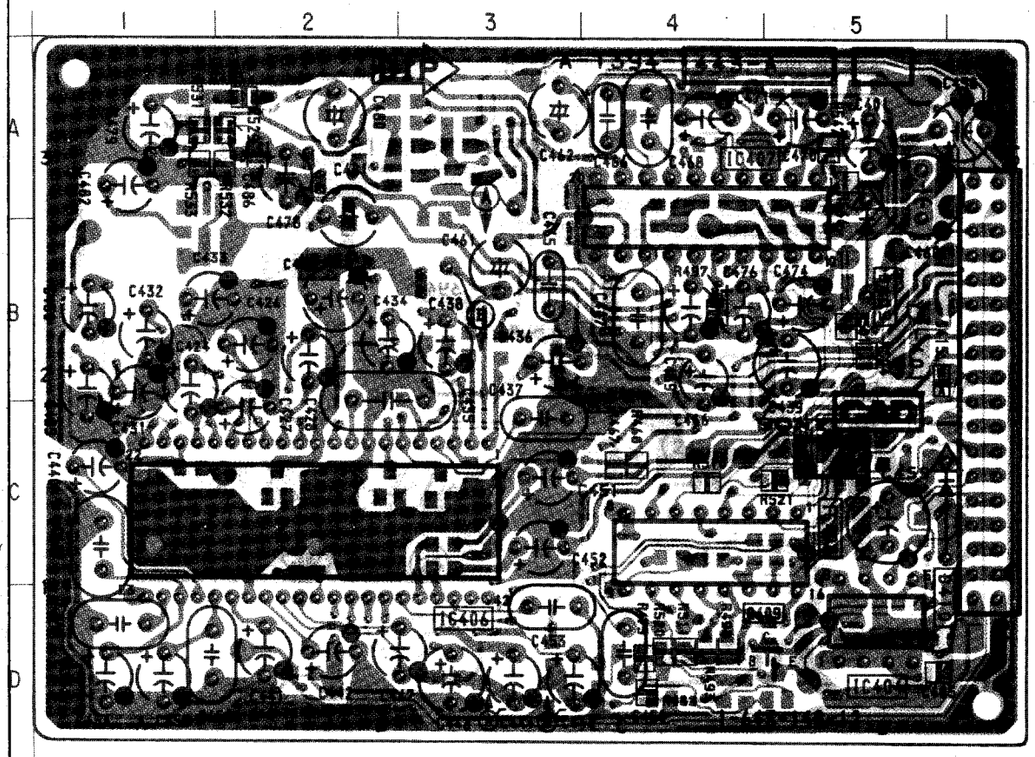
Note :
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

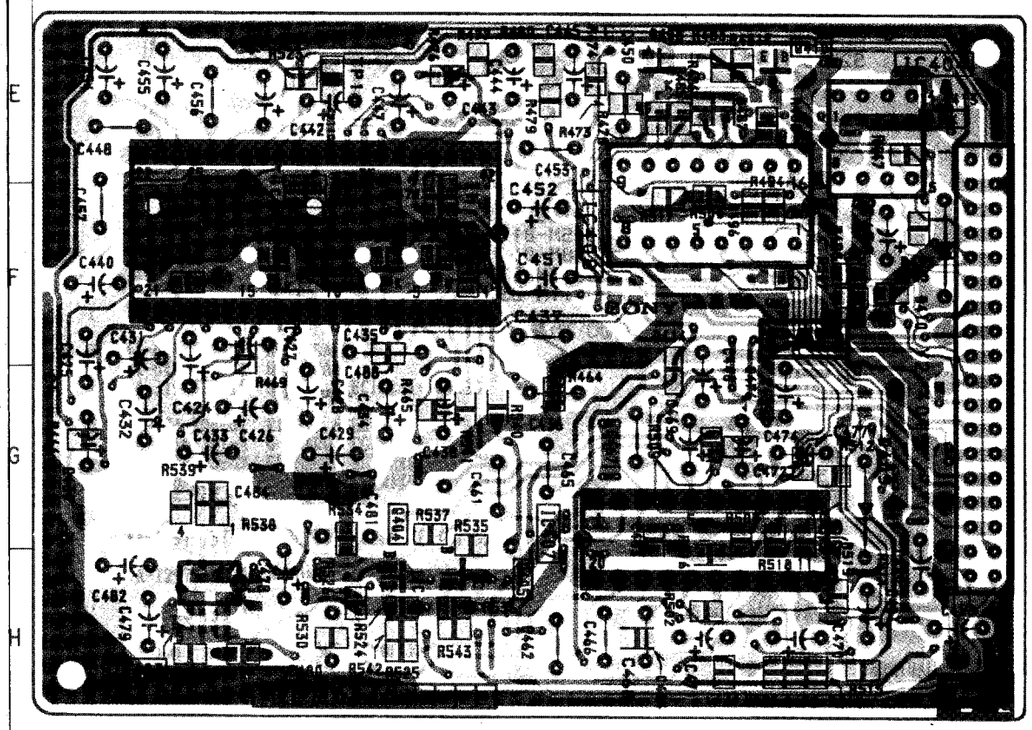
KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

– Y2 BOARD –



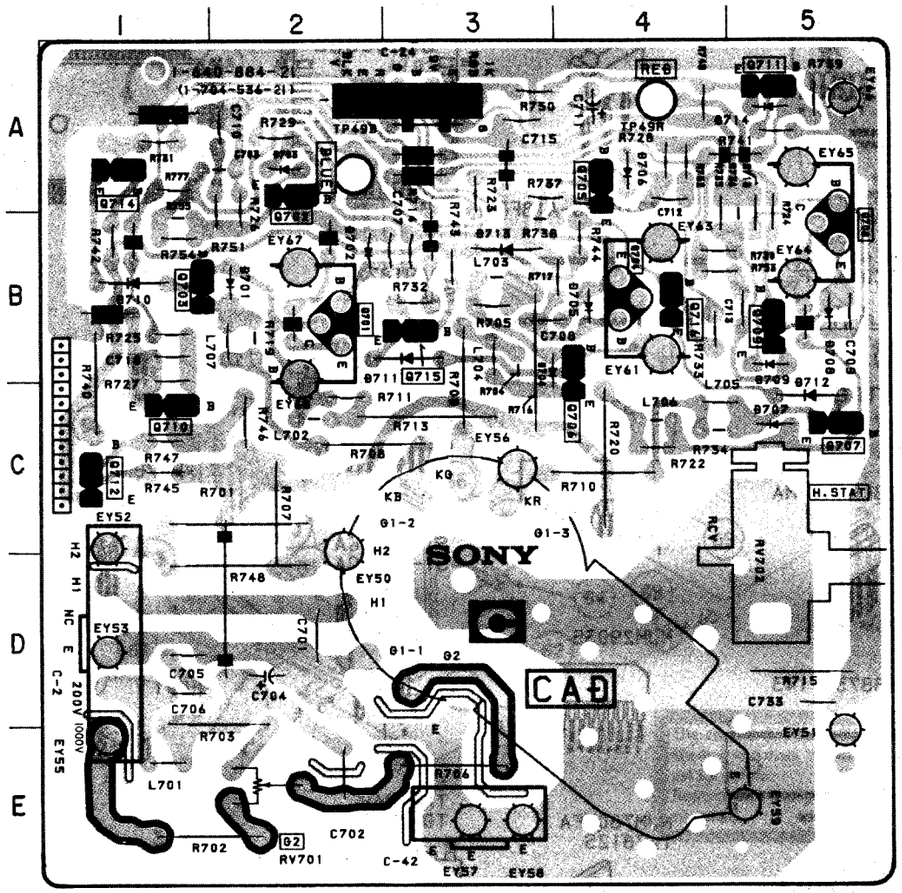


| IC | |
|---|---|
| IIC403 | H – 1 |
| IC404 | D – 5, E – 5 |
| IC406 | C – 2, F – 2 |
| IC407 | A – 4, G – 4 |
| IC408 | C – 4, F – 4 |

| TRANSISTOR | |
|---|---|
| Q404 | H – 3 |
| Q405 | H – 3 |
| Q409 | D – 5 |
| Q410 | E – 5 |

| DIODE | |
|---|---|
| D405 | F – 2 |
| D406 | F – 2 |
| D407 | F – 3 |
| D408 | E – 4 |
| D409 | A – 5 |
| D410 | C – 5, F – 5 |
| D413 | E – 6 |
| D141 | F – 4 |
| D415 | B – 5 |

– C BOARD –



Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

| TRANSISTOR | |
|---|---|
| Q701 | B – 2 |
| Q702 | A – 2 |
| Q703 | B – 1 |
| Q704 | B – 4 |
| Q705 | A – 4 |
| Q706 | B – 4 |
| Q707 | C – 5 |
| Q708 | B – 5 |
| Q709 | B – 5 |
| Q710 | C – 1 |
| Q711 | A – 5 |
| Q712 | C – 1 |
| Q714 | A – 1 |
| Q715 | B – 3 |
| Q716 | B – 4 |

| DIODE | |
|---|---|
| D701 | B – 2 |
| D702 | B – 2 |
| D703 | A – 2 |
| D704 | B – 3 |
| D705 | B – 4 |
| D706 | A – 4 |
| D707 | C – 5 |
| D708 | B – 5 |
| D709 | C – 5 |
| D710 | B – 1 |
| D711 | B – 3 |
| D712 | C – 5 |
| D713 | B – 3 |
| D714 | A – 5 |

| VARIABLE RESISTOR | |
|---|---|
| RV701 | E – 2 |
| RV702 | D – 5 |

# SECTION 8
# ELECTRICAL PARTS LIST

P3

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | *A-1195-068-A | P3 BOARD, COMPLETE (KV-32XBR36(US/CND)) | | | | |
| | | ********** | | | | |
| | | <CAPACITOR> | | | | |
| C2001 | 1-124-910-11 | ELECT | 47MF | 20% | 50V | |
| C2002 | 1-124-910-11 | ELECT | 47MF | 20% | 50V | |
| C2003 | 1-124-119-00 | ELECT | 330MF | 20% | 16V | |
| C2004 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C2005 | 1-124-261-00 | ELECT | 10MF | 20% | 50V | |
| C2006 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C2007 | 1-126-157-11 | ELECT | 10MF | 20% | 16V | |
| C2008 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V | |
| C2009 | 1-163-157-00 | FILM | 0.022MF | 5% | 50V | |
| C2010 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | | 50V | |
| C2011 | 1-126-157-11 | ELECT | 10MF | 20% | 16V | |
| C2013 | 1-126-301-11 | ELECT | 1MF | 20% | 50V | |
| C2014 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V | |
| C2015 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C2016 | 1-163-109-00 | CERAMIC CHIP | 47PF | 5% | 50V | |
| C2017 | 1-163-109-00 | CERAMIC CHIP | 47PF | 5% | 50V | |
| C2018 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V | |
| C2019 | 1-126-103-11 | ELECT | 470MF | 20% | 16V | |
| C2020 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V | |
| C2021 | 1-126-157-11 | ELECT | 10MF | 20% | 16V | |
| C2022 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C2023 | 1-163-119-00 | CERAMIC CHIP | 120PF | 5% | 50V | |
| C2024 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V | |
| C2025 | 1-126-157-11 | ELECT | 10MF | 20% | 16V | |
| C2027 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V | |
| C2028 | 1-163-107-00 | CERAMIC CHIP | 39PF | 5% | 50V | |
| C2064 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V | |
| C2065 | 1-126-320-11 | ELECT | 10MF | 20% | 16V | |
| C2066 | 1-126-157-11 | ELECT | 10MF | 20% | 16V | |
| C2067 | 1-126-157-11 | ELECT | 10MF | 20% | 16V | |
| C2068 | 1-124-916-11 | ELECT | 22MF | 20% | 50V | |
| C2075 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| | | <COMPOSITION CIRCUIT BLOCK> | | | | |
| CP2001 | 1-236-472-11 | NETWORK, RES, THICK FILM | | | | |
| | | <DIODE> | | | | |
| D2006 | 8-719-105-45 | DIODE RD3.3M-B1 | | | | |
| D2007 | 8-719-911-19 | DIODE 1SS119 | | | | |
| | | <IC> | | | | |
| IC2001 | 8-759-231-58 | IC TA7812S | | | | |
| IC2002 | 8-759-700-48 | IC NJM2903S | | | | |
| IC2003 | 8-759-805-37 | IC L78LR05D-MA | | | | |
| IC2004 | 8-759-066-51 | IC MB88733-143 | | | | |
| IC2005 | 8-759-803-25 | IC CXK1006L | | | | |
| | | <JACK> | | | | |
| J2001 | *1-573-962-11 | CONNECTOR (MALE) 50P | | | | |
| | | <COIL> | | | | |
| L2002 | 1-410-663-31 | INDUCTOR | 10UH | | | |
| L2003 | 1-410-667-31 | INDUCTOR | 22UH | | | |
| | | <CONNECTOR> | | | | |
| P3-39 | *1-564-521-11 | PLUG, CONNECTOR 6P | | | | |
| P3-41 | *1-564-519-11 | PLUG, CONNECTOR 4P | | | | |
| | | <TRANSISTOR> | | | | |
| Q2001 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q2002 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | | |
| Q2003 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | | |
| Q2004 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q2005 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | | |
| Q2006 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | | |
| Q2007 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q2008 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q2009 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q2010 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | | |
| Q2011 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q2012 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q2030 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q2031 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q2036 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | | |
| Q2037 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | | |
| | | <RESISTOR> | | | | |
| R2002 | 1-216-357-00 | METAL OXIDE | 4.7 | 5% | 1W | F |
| R2003 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R2004 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2006 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W | |
| R2007 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R2008 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2009 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2010 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R2011 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R2012 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R2013 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R2014 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |

P3 A

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R2015 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R2016 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R2017 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W | |
| R2018 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2019 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2020 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R2021 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R2022 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W | |
| R2023 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2024 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W | |
| R2025 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R2026 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R2027 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R2028 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2029 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R2030 | 1-216-009-00 | METAL GLAZE | 22 | 5% | 1/10W | |
| R2031 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R2032 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R2033 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R2037 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R2038 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R2039 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R2040 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2041 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2046 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2047 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2048 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2049 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R2050 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R2051 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2052 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R2053 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2054 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2055 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2056 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R2057 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2058 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2059 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2060 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2061 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2062 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R2063 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R2064 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R2093 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R2124 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2125 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R2127 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R2128 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R2129 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W | |
| R2130 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R2131 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R2132 | 1-216-676-11 | METAL CHIP | 11K | 0.50% | 1/10W | |
| R2147 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R2148 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2149 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R2150 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R2151 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |

<VARIABLE RESISTOR>

| | | | |
|---|---|---|---|
| RV2001 | 1-238-015-11 | RES, ADJ, CARBON 4.7K | |

<TUNER>

| | | | |
|---|---|---|---|
| TU2001⚠ | 1-693-102-22 | TUNER (BTF-XA401) | |

<CRYSTAL>

| | | | |
|---|---|---|---|
| X2001 | 1-567-192-11 | OSCILLATOR, CERAMIC 4MHZ | |

**********

| | | | |
|---|---|---|---|
| | *A-1297-137-A | A BOARD, COMPLETE (KV-32XBR26(US/CND)) | |
| | | ********** | |
| | *A-1297-138-A | A BOARD, COMPLETE (KV-32XBR36(US/CND)) | |
| | | ********** | |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) | |

<CONNECTOR>

| | | | |
|---|---|---|---|
| A-2 | *1-573-964-11 | PIN, CONNECTOR (PC BOARD) 6P | |
| A-3 | *1-573-986-11 | PIN, CONNECTOR (PC BOARD) 5P | |
| A-4 | *1-564-510-11 | PLUG, CONNECTOR 7P | |
| A-5 | *1-564-507-11 | PLUG, CONNECTOR 4P | |
| A-11 | *1-564-507-11 | PLUG, CONNECTOR 4P | |
| A-12 | 1-573-297-21 | CONNECTOR, BOARD TO BOARD 18P | |
| A-13 | 1-573-297-21 | CONNECTOR, BOARD TO BOARD 18P | |
| A-14 | 1-573-296-21 | CONNECTOR, BOARD TO BOARD 10P | |
| A-15 | 1-573-296-21 | CONNECTOR, BOARD TO BOARD 10P | |
| A-18 | 1-573-296-21 | CONNECTOR, BOARD TO BOARD 10P | |
| A-21 | *1-508-768-00 | PIN, CONNECTOR (5MM PITCH) 6P | |
| A-37 | *1-564-514-11 | PLUG, CONNECTOR 11P | |
| A-43 | *1-564-508-11 | PLUG, CONNECTOR 5P | |
| A-48 | 1-508-784-00 | PIN, CONNECTOR (5MM PITCH) 1P | |
| A-49 | *1-564-506-11 | PLUG, CONNECTOR 3P | |
| A100 | 1-573-979-21 | CONNECTOR, BOARD TO BOARD 11P | |
| DY-1 | *1-580-798-11 | CONNECTOR PIN (DY) 6P | |
| ES002 | *1-573-960-11 | CONNECTOR (FEMALE) 50P | |

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C201 | 1-126-101-11 | ELECT | 100MF | 20% | 16V |
| C202 | 1-102-108-00 | CERAMIC | 150PF | 10% | 50V |
| C210 | 1-102-121-00 | CERAMIC | 0.0022MF | 10% | 50V |
| C211 | 1-101-006-00 | CERAMIC | 0.047MF | | 50V |
| C213 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C214 | 1-126-101-11 | ELECT | 100MF | 20% | 16V |
| C215 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C216 | 1-126-101-11 | ELECT | 100MF | 20% | 16V |
| C217 | 1-124-126-00 | ELECT | 47MF | 20% | 25V |
| C218 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C219 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C220 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C221 | 1-124-910-11 | ELECT | 47MF | 20% | 50V (KV-32XBR36(US/CND)) |
| C223 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C224 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C225 | 1-124-120-11 | ELECT | 220MF | 20% | 16V |
| C226 | 1-124-621-11 | ELECT | 3300MF | 20% | 6.3V |
| C299 | 1-126-101-11 | ELECT | 100MF | 20% | 16V |
| C501 | 1-137-116-11 | FILM | 1MF | 5% | 200V |
| C502 | 1-130-728-00 | FILM | 0.0022MF | 5% | 50V |
| C504 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C505 | 1-124-790-11 | ELECT | 0.47MF | 20% | 100V |
| C506 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C508 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV |

A

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Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C509 | 1-123-946-00 | ELECT | 4.7MF | 20% | 250V |
| C510 | 1-102-110-00 | CERAMIC | 220PF | 10% | 50V |
| C511 | 1-124-477-11 | ELECT | 47MF | 20% | 25V |
| C512 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C513 | 1-106-391-12 | MYLAR | 0.1MF | 10% | 200V |
| C514 | 1-124-477-11 | ELECT | 47MF | 20% | 25V |
| C515 | 1-162-117-00 | CERAMIC | 100PF | 10% | 500V |
| C517 | 1-124-477-11 | ELECT | 47MF | 20% | 25V |
| C519 | 1-124-472-11 | ELECT | 470MF | 20% | 10V |
| C520 ⚠ | 1-162-116-91 | CERAMIC | 680PF | 10% | 2KV |
| C521 ⚠ | 1-137-606-21 | FILM | 0.023MF | 3% | 2KV |
| C522 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C523 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V |
| C524 | 1-130-487-00 | MYLAR | 0.022MF | 5% | 50V |
| C525 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C526 ⚠ | 1-136-895-51 | FILM | 0.068MF | 5% | 630V |
| C527 | 1-130-495-00 | MYLAR | 0.1MF | 5% | 50V |
| C528 | 1-106-359-00 | MYLAR | 0.0047MF | 10% | 200V |
| C531 | 1-124-634-11 | ELECT | 1MF | 20% | 250V |
| C532 | 1-124-477-11 | ELECT | 47MF | 20% | 25V |
| C533 | 1-137-119-11 | FILM | 2MF | 5% | 200V |
| C534 | 1-137-116-11 | FILM | 1MF | 5% | 200V |
| C535 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C536 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C537 | 1-106-343-00 | MYLAR | 0.001MF | 10% | 100V |
| C538 | 1-106-395-00 | MYLAR | 0.15MF | 10% | 200V |
| C539 | 1-123-950-00 | ELECT | 47MF | 20% | 250V |
| C540 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C541 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C542 | 1-106-387-00 | MYLAR | 0.068MF | 10% | 200V |
| C546 | 1-123-024-21 | ELECT | 33MF | | 160V |
| C549 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C551 | 1-130-471-00 | MYLAR | 0.001MF | 5% | 50V |
| C552 | 1-126-176-11 | ELECT | 220MF | 20% | 10V |
| C554 ⚠ | 1-161-731-51 | CERAMIC | 0.001MF | 10% | 2KV |
| C557 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V |
| C561 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C562 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C563 | 1-130-491-00 | MYLAR | 0.047MF | 5% | 50V |
| C564 | 1-130-495-00 | MYLAR | 0.1MF | 5% | 50V |
| C565 | 1-130-495-00 | MYLAR | 0.1MF | 5% | 50V |
| C566 | 1-130-485-00 | MYLAR | 0.015MF | 5% | 50V |
| C569 | 1-136-167-00 | FILM | 0.15MF | 5% | 50V |
| C570 | 1-130-471-00 | MYLAR | 0.001MF | 5% | 50V |
| C571 | 1-130-471-00 | FILM | 0.001MF | 2% | 50V |
| C572 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C573 | 1-130-471-00 | MYLAR | 0.001MF | 5% | 50V |
| C575 | 1-102-038-00 | CERAMIC | 0.001MF | | 500V |
| C578 | 1-106-367-00 | MYLAR | 0.01MF | 10% | 200V |
| C579 | 1-106-383-00 | MYLAR | 0.047MF | | 200V |
| C1401 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C1402 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C1403 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C1404 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C1405 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C1406 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C1407 | 1-124-607-11 | ELECT | 2200MF | 20% | 50V |
| C1408 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C1409 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C1424 | 1-124-607-11 | ELECT | 2200MF | 20% | 50V |
| C1425 | 1-124-607-11 | ELECT | 2200MF | 20% | 50V |
| C1426 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C1435 | 1-124-916-11 | ELECT | 22MF | 20% | 50V |
| C1437 | 1-130-499-00 | MYLAR | 0.22MF | 5% | 50V |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C1501 | 1-124-916-11 | ELECT | 22MF | 20% | 50V |
| C1502 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C1503 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V |
| C1504 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C1505 | 1-124-911-11 | ELECT | 220MF | 20% | 50V |
| C1506 | 1-136-171-00 | FILM | 0.33MF | 5% | 50V |
| C1507 | 1-106-224-00 | MYLAR | 0.15MF | 10% | 100V |
| C1508 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C1509 | 1-124-122-11 | ELECT | 100MF | 20% | 50V |

<DIODE>

| | | | |
|---|---|---|---|
| D205 | 8-719-911-19 | DIODE | 1SS119 |
| D206 | 8-719-911-19 | DIODE | 1SS119 |
| D207 | 8-719-911-19 | DIODE | 1SS119 |
| D208 | 8-719-911-19 | DIODE | 1SS119 |
| D209 | 8-719-510-48 | DIODE | D1N20R |
| D213 | 8-719-110-78 | DIODE | RD33ES-B2 |
| D501 | 8-719-018-82 | DIODE | RGP02-20EL-6394 |
| D502 ⚠ | 8-719-302-44 | DIODE | EL1Z-V1 |
| D504 | 8-719-911-19 | DIODE | 1SS119 |
| D506 | 8-719-109-90 | DIODE | RD5.6ES-B3 |
| D508 | 8-719-109-88 | DIODE | RD5.6ES-B1 |
| D509 | 8-719-110-03 | DIODE | RD7.5ES-B2 |
| D511 | 8-719-300-33 | DIODE | RU-3AM |
| D512 | 8-719-908-03 | DIODE | GP08D |
| D513 | 8-719-908-03 | DIODE | GP08D |
| D514 | 8-719-312-72 | DIODE | RU30A |
| D515 | 8-719-936-84 | DIODE | RGP10GPKG3 |
| D516 | 8-719-979-85 | DIODE | EGP20G |
| D518 | 8-719-109-93 | DIODE | RD6.2ES-B2 |
| D521 | 8-719-911-19 | DIODE | 1SS119 |
| D522 | 8-719-110-72 | DIODE | RD30ES-B2 |
| D524 | 8-719-976-64 | DIODE | RGP02-17 |
| D525 | 8-719-911-19 | DIODE | 1SS119 |
| D527 | 8-719-110-78 | DIODE | RD33ES-B2 |
| D528 | 8-719-911-19 | DIODE | 1SS119 |
| D529 | 8-719-911-19 | DIODE | 1SS119 |
| D530 | 8-719-911-19 | DIODE | 1SS119 |
| D1407 | 8-719-911-19 | DIODE | 1SS119 |
| D1409 | 8-719-110-90 | DIODE | RD39ES-B4 |
| D1410 | 8-719-901-83 | DIODE | 1SS83 |
| D1411 | 8-719-901-83 | DIODE | 1SS83 |
| D1503 | 8-719-908-03 | DIODE | GP08D |
| D4001 | 8-719-911-19 | DIODE | 1SS119 |

<IC>

| | | |
|---|---|---|
| IC201 | 8-749-920-58 | IC SI-3090CA |
| IC202 | 8-749-921-99 | IC SI-3120CA (KV-32XBR36(US/CND)) |
| IC204 | 8-759-701-75 | IC NJM7805FA |
| IC205 | 8-759-144-84 | IC UPC24M05HF |
| IC206 | 8-759-231-58 | IC TA7812S |
| IC501 | 8-759-987-16 | IC LM393P |
| IC502 | 1-809-726-11 | MODULE, PROTECTOR PM-29 |
| IC503 | 8-759-987-16 | IC LM393P |
| IC504 | 8-759-231-58 | IC TA7812S |
| IC1401 | 8-759-246-70 | IC TA8216H |
| IC1501 | 8-759-506-46 | IC TDA8179S |

<COIL>

| | | | |
|---|---|---|---|
| L201 | 1-408-408-00 | INDUCTOR | 8.2UH |

A

• The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| L205 | 1-408-421-00 | INDUCTOR | 100UH | | | |
| L208 | 1-410-785-31 | INDUCTOR | 0.22UH | | | |
| L210 | 1-408-408-00 | INDUCTOR | 8.2UH | | | |
| L502 | 1-412-552-31 | INDUCTOR | 2.2MMH | | | |
| L508 | 1-421-541-00 | COIL, CHOKE | 1000UH | | | |
| L509 | 1-459-104-00 | COIL, WITH CORE 10MMH | | | | |
| L510 ⚠ | 1-460-197-11 | COIL, FERRITE (PMC) | | | | |
| L511 | 1-412-519-11 | INDUCTOR | 3.3UH | | | |
| L512 | 1-412-531-31 | INDUCTOR | 33UH | | | |
| L513 | 1-412-519-11 | INDUCTOR | 3.3UH | | | |
| L515 | 1-410-645-31 | INDUCTOR | 100UH | | | |
| L517 ⚠ | 1-459-973-21 | COIL, HORIZONTAL LINEARITY | | | | |
| L520 | 1-412-531-31 | INDUCTOR | 33UH | | | |
| L521 | 1-459-148-00 | COIL | | | | |
| L1501 | 1-412-525-21 | INDUCTOR | 10UH | | | |
| L1502 | 1-412-525-21 | INDUCTOR | 10UH | | | |
| L1503 | 1-412-525-21 | INDUCTOR | 10UH | | | |
| | | <TRANSISTOR> | | | | |
| Q201 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q202 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q501 | 8-729-011-07 | TRANSISTOR 2SC4763(LBSONY) | | | | |
| Q502 | 8-729-140-97 | TRANSISTOR 2SB734-34 | | | | |
| Q504 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q506 | 8-729-011-00 | TRANSISTOR 2SK1916-53-F87 | | | | |
| Q507 | 8-729-119-80 | TRANSISTOR 2SC2688-LK | | | | |
| Q509 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q510 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q512 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q513 | 8-729-140-96 | TRANSISTOR 2SD774-34 | | | | |
| Q515 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q516 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q1401 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q1407 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q1408 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q1501 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q1502 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| | | <RESISTOR> | | | | |
| R210 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R211 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R214 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R219 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | |
| R221 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R222 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W (KV-32XBR36(US/CND)) | |
| R222 | 1-249-436-11 | CARBON | 39K | 5% | 1/4W (KV-32XBR26(US/CND)) | |
| R223 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W (KV-32XBR36(US/CND)) | |
| R223 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W (KV-32XBR26(US/CND)) | |
| R224 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R225 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W (KV-32XBR36(US/CND)) | |
| R226 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R227 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W (KV-32XBR36(US/CND)) | |
| R230 | 1-215-923-00 | METAL OXIDE | 10K | 5% | 3W | F |
| R231 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F |
| R232 | 1-216-380-11 | METAL OXIDE | 8.2 | 5% | 2W | F |
| R233 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R234 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R235 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R236 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R237 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R238 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R239 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R240 | 1-249-482-11 | CARBON | 4.7 | 5% | 1/2W | F |
| R501 | 1-215-442-00 | METAL | 7.5K | 1% | 1/4W | |
| R504 | 1-215-869-11 | METAL OXIDE | 1K | 5% | 1W | F |
| R505 | 1-215-449-00 | METAL | 15K | 1% | 1/4W | |
| R506 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R507 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R508 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R509 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R510 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F |
| R511 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| R512 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R513 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R514 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W | |
| R515 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R517 | 1-216-361-00 | METAL OXIDE | 0.22 | 5% | 2W | F |
| R519 | 1-247-755-11 | CARBON | 1.8K | 5% | 1/2W | F |
| R520 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R521 | 1-216-481-11 | METAL OXIDE | 1.2K | 5% | 3W | F |
| R522 | 1-215-917-11 | METAL OXIDE | 1K | 5% | 3W | F |
| R523 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R524 | 1-215-445-00 | METAL | 10K | 1% | 1/4W | |
| R526 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W | |
| R528 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R529 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R530 | 1-215-457-00 | METAL | 33K | 1% | 1/4W | |
| R532 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R533 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W | |
| R534 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W | |
| R535 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| R537 | 1-215-465-00 | METAL | 68K | 1% | 1/4W | |
| R538 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W | |
| R539 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R541 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| R542 | 1-215-890-11 | METAL OXIDE | 470 | 5% | 2W | F |
| R546 | 1-215-441-00 | METAL | 6.8K | 1% | 1/4W | |
| R547 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R548 | 1-215-885-00 | METAL OXIDE | 68 | 5% | 2W | F |
| R549 | 1-215-881-11 | METAL OXIDE | 15 | 5% | 2W | F |
| R550 | 1-215-910-00 | METAL OXIDE | 68 | 5% | 3W | F |
| R551 | 1-247-743-11 | CARBON | 220 | 5% | 1/2W | F |
| R552 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R553 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R554 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R555 | 1-202-826-00 | SOLID | 4.7K | 20% | 1/2W | |
| R558 | 1-259-882-11 | CARBON | 3.3M | 5% | 1/4W | |
| R560 | 1-247-901-11 | CARBON | 820K | 5% | 1/4W | |
| R564 | 1-215-470-00 | METAL | 110K | 1% | 1/4W | |
| ⊠R565 ⚠ | | CARBON | | | 1/4W | |
| ⊠R566 ⚠ | | CARBON | | | 1/4W | |
| R567 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R568 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R569 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R572 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R573 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R576 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R584 | 1-215-467-00 | METAL | 82K | 1% | 1/4W | |
| R587 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |

A E1

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R589 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R590 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R592 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R593 | 1-215-878-00 | METAL OXIDE | 33K | 5% | 1W | F |
| R594 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R595 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W | |
| R597 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R598 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R599 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R1401 | 1-215-444-00 | METAL | 9.1K | 1% | 1/4W | |
| R1402 | 1-215-444-00 | METAL | 9.1K | 1% | 1/4W | |
| R1403 | 1-215-430-00 | METAL | 2.4K | 1% | 1/4W | |
| R1404 | 1-215-430-00 | METAL | 2.4K | 1% | 1/4W | |
| R1405 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/4W | F |
| R1406 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/4W | F |
| R1409 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R1410 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R1427 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R1428 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R1439 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W | |
| R1501 | 1-215-449-00 | METAL | 15K | 1% | 1/4W | |
| R1502 | 1-215-436-00 | METAL | 4.3K | 1% | 1/4W | |
| R1503 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R1505 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R1506 | 1-218-642-11 | METAL OXIDE | 100K | 5% | 1W | F |
| R1507 | 1-249-436-11 | CARBON | 39K | 5% | 1/4W | |
| R1508 | 1-215-453-00 | METAL | 22K | 1% | 1/4W | |
| R1509 | 1-215-461-00 | METAL | 47K | 1% | 1/4W | |
| R1510 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W | F |
| R1511 | 1-215-888-00 | METAL OXIDE | 220 | 5% | 2W | F |
| R1512 | 1-216-371-00 | METAL OXIDE | 1.5 | 5% | 2W | F |
| R1513 | 1-249-436-11 | CARBON | 39K | 5% | 1/4W | |
| R1550 | 1-215-881-11 | METAL OXIDE | 15 | 5% | 2W | F |
| R4002 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/4W | F |
| R4003 | 1-216-361-00 | METAL OXIDE | 0.22 | 5% | 2W | F |
| R4004 | 1-216-374-00 | METAL OXIDE | 2.7 | 5% | 2W | F |
| R4006 | 1-216-396-11 | METAL OXIDE | 3.9 | 5% | 3W | F |

<SPARK GAP>

| | | | |
|---|---|---|---|
| SG501 | 1-519-422-11 | GAP, SPARK | |

<TRANSFORMER>

| | | | |
|---|---|---|---|
| T501 ⚠ | 1-439-513-11 | TRANSFORMER ASSY, FLYBACK (NX-2602A3) | |
| T503 | 1-437-217-11 | TRANSFORMER, HORIZONTAL DRIVE | |
| T505 | 1-413-059-00 | TRANSFORMER, FERRITE (DFT) | |

<THERMISTOR>

| | | | |
|---|---|---|---|
| THP150 | 1-807-970-11 | THERMISTOR | |

<TUNER>

| | | | |
|---|---|---|---|
| TU101 ⚠ | 1-693-102-22 | TUNER (BTF-XA401) | |

**********

*A-1346-132-A E1 BOARD, COMPLETE
**********

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C301 | 1-163-010-11 | CERAMIC CHIP | 0.0012MF | 10% | 50V |
| C303 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C304 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C305 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C306 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C309 | 1-164-505-11 | CERAMIC CHIP | 2.2MF | | 16V |
| C310 | 1-163-109-00 | CERAMIC CHIP | 47PF | 5% | 50V |
| C314 | 1-124-915-11 | ELECT | 10MF | 20% | 16V |
| C315 | 1-164-505-11 | CERAMIC CHIP | 2.2MF | | 16V |
| C319 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C320 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V |
| C321 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V |
| C322 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% | 50V |
| C323 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% | 50V |
| C324 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C325 | 1-104-563-11 | FILM CHIP | 0.1MF | 5% | 16V |
| C326 | 1-104-563-11 | FILM CHIP | 0.1MF | 5% | 16V |
| C327 | 1-104-563-11 | FILM CHIP | 0.1MF | 5% | 16V |
| C328 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C329 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C330 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C331 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C332 | 1-124-584-00 | ELECT | 100MF | 20% | 10V |
| C333 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 25V |
| C334 | 1-137-491-11 | FILM CHIP | 0.1MF | 5% | 25V |
| C335 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C336 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C337 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C338 | 1-124-584-00 | ELECT | 100MF | 20% | 10V |
| C339 | 1-124-791-11 | ELECT | 1MF | 20% | 50V |
| C340 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C341 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C342 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V |
| C343 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C344 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C345 | 1-124-767-00 | ELECT | 2.2MF | 20% | 50V |
| C346 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C347 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C348 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C349 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C350 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C351 | 1-163-002-11 | CERAMIC CHIP | 270PF | 10% | 50V |
| C352 | 1-164-489-11 | CERAMIC CHIP | 0.22MF | 10% | 16V |
| C353 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C354 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C355 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V |
| C356 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C357 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C358 | 1-124-767-00 | ELECT | 2.2MF | 20% | 50V |
| C360 | 1-137-491-11 | FILM CHIP | 0.1MF | 5% | 25V |
| C361 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C362 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C363 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C364 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C365 | 1-164-343-11 | CERAMIC CHIP | 0.056MF | 10% | 25V |
| C366 | 1-124-257-00 | ELECT | 2.2MF | 20% | 50V |
| C367 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C368 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C369 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C370 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C371 | 1-124-126-00 | ELECT | 47MF | 20% | 16V |
| C372 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C373 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C378 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C379 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |

# E1

| REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|---|---|---|
| C380 | 1-163-137-00 | CERAMIC CHIP 680PF | 5% 50V | |
| C381 | 1-163-101-00 | CERAMIC CHIP 22PF | 5% 50V | |
| C382 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | |
| C383 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | |
| C384 | 1-163-095-00 | CERAMIC CHIP 12PF | 5% 50V | |
| | | <DIODE> | | |
| D301 | 8-719-404-46 | DIODE MA110 | | |
| D302 | 8-719-404-46 | DIODE MA110 | | |
| D303 | 8-719-404-46 | DIODE MA110 | | |
| D304 | 8-719-404-46 | DIODE MA110 | | |
| D305 | 8-719-404-46 | DIODE MA110 | | |
| D306 | 8-719-158-15 | DIODE RD5.6SB | | |
| D307 | 8-719-404-46 | DIODE MA110 | | |
| D310 | 8-719-158-15 | DIODE RD5.6SB | | |
| D312 | 8-719-404-46 | DIODE MA110 | | |
| D313 | 8-719-404-46 | DIODE MA110 | | |
| D314 | 8-719-404-46 | DIODE MA110 | | |
| D315 | 8-719-404-46 | DIODE MA110 | | |
| D316 | 8-719-404-46 | DIODE MA110 | | |
| D317 | 8-719-404-46 | DIODE MA110 | | |
| D318 | 8-719-404-46 | DIODE MA110 | | |
| D319 | 8-719-404-46 | DIODE MA110 | | |
| D320 | 8-719-404-46 | DIODE MA110 | | |
| D321 | 8-719-400-94 | DIODE MA3130 | | |
| | | <DELAY LINE> | | |
| DL302 | 1-415-817-11 | DELAY LINE | | |
| | | <CONNECTOR> | | |
| E1-24 | 1-564-523-11 | PLUG, CONNECTOR 8P | | |
| E1-25 | *1-564-521-11 | PLUG, CONNECTOR 6P | | |
| E1-26 | *1-564-522-11 | PLUG, CONNECTOR 7P | | |
| E1-001 | 1-573-965-21 | PIN, CONNECTOR (PC BOARD) 50P | | |
| | | <IC> | | |
| IC301 | 8-752-058-68 | IC CXA1315M | | |
| IC302 | 8-752-059-67 | IC CXA1465AS | | |
| IC303 | 8-759-106-02 | IC UPC4570G2 | | |
| | | <COIL> | | |
| L301 | 1-410-064-11 | INDUCTOR 2.7MMH | | |
| L307 | 1-410-944-31 | INDUCTOR CHIP 15UH | | |
| L308 | 1-410-946-31 | INDUCTOR CHIP 22UH | | |
| | | <TRANSISTOR> | | |
| Q301 | 8-729-925-79 | TRANSISTOR IMX3 | | |
| Q302 | 8-729-925-79 | TRANSISTOR IMX3 | | |
| Q303 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q304 | 8-729-907-46 | TRANSISTOR IMZ1 | | |
| Q305 | 8-729-925-79 | TRANSISTOR IMX3 | | |
| Q306 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q307 | 8-729-903-10 | TRANSISTOR FMW1 | | |
| Q309 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q310 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q311 | 8-729-403-27 | TRANSISTOR XN4401 | | |
| Q312 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q314 | 8-729-403-27 | TRANSISTOR XN4401 | | |
| Q315 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q316 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q317 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | |
| Q321 | 8-729-925-79 | TRANSISTOR IMX3 | | |
| Q322 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | |
| Q323 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q324 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | |
| Q325 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | |
| Q326 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q327 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q328 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q329 | 8-729-925-79 | TRANSISTOR IMX3 | | |
| Q330 | 8-729-925-79 | TRANSISTOR IMX3 | | |
| Q333 | 8-729-925-79 | TRANSISTOR IMX3 | | |
| Q334 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q335 | 8-729-907-46 | TRANSISTOR IMZ1 | | |
| Q340 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | |
| Q342 | 8-729-925-79 | TRANSISTOR IMX3 | | |
| Q344 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | |
| | | <RESISTOR> | | |
| R301 | 1-216-025-00 | METAL GLAZE | 100 5% | 1/10W |
| R302 | 1-216-057-00 | METAL GLAZE | 2.2K 5% | 1/10W |
| R303 | 1-216-079-00 | METAL GLAZE | 18K 5% | 1/10W |
| R304 | 1-216-081-00 | METAL GLAZE | 22K 5% | 1/10W |
| R305 | 1-216-069-00 | METAL GLAZE | 6.8K 5% | 1/10W |
| R306 | 1-216-081-00 | METAL GLAZE | 22K 5% | 1/10W |
| R307 | 1-216-089-00 | METAL GLAZE | 47K 5% | 1/10W |
| R308 | 1-216-037-00 | METAL GLAZE | 330 5% | 1/10W |
| R309 | 1-216-073-00 | METAL GLAZE | 10K 5% | 1/10W |
| R310 | 1-216-065-00 | METAL GLAZE | 4.7K 5% | 1/10W |
| R312 | 1-216-043-00 | METAL GLAZE | 560 5% | 1/10W |
| R313 | 1-216-035-00 | METAL GLAZE | 270 5% | 1/10W |
| R314 | 1-216-061-00 | METAL GLAZE | 3.3K 5% | 1/10W |
| R316 | 1-216-035-00 | METAL GLAZE | 270 5% | 1/10W |
| R317 | 1-216-121-00 | METAL GLAZE | 1M 5% | 1/10W |
| R320 | 1-216-039-00 | METAL GLAZE | 390 5% | 1/10W |
| R325 | 1-216-033-00 | METAL GLAZE | 220 5% | 1/10W |
| R326 | 1-216-057-00 | METAL GLAZE | 2.2K 5% | 1/10W |
| R331 | 1-216-017-00 | METAL GLAZE | 47 5% | 1/10W |
| R332 | 1-216-657-11 | METAL CHIP | 1.8K 0.50% | 1/10W |
| R333 | 1-216-051-00 | METAL GLAZE | 1.2K 5% | 1/10W |
| R336 | 1-216-047-00 | METAL GLAZE | 820 5% | 1/10W |
| R338 | 1-216-043-00 | METAL GLAZE | 560 5% | 1/10W |
| R339 | 1-216-047-00 | METAL GLAZE | 820 5% | 1/10W |
| R340 | 1-216-651-11 | METAL CHIP | 1K 0.50% | 1/10W |
| R341 | 1-216-043-00 | METAL GLAZE | 560 5% | 1/10W |
| R343 | 1-216-077-00 | METAL GLAZE | 15K 5% | 1/10W |
| R344 | 1-216-081-00 | METAL GLAZE | 22K 5% | 1/10W |
| R345 | 1-216-292-11 | METAL GLAZE | 8.2M 5% | 1/8W |
| R346 | 1-216-081-00 | METAL GLAZE | 22K 5% | 1/10W |
| R347 | 1-216-081-00 | METAL GLAZE | 22K 5% | 1/10W |
| R348 | 1-216-049-00 | METAL GLAZE | 1K 5% | 1/10W |
| R349 | 1-216-295-00 | METAL GLAZE | 0 5% | 1/10W |
| R350 | 1-216-089-00 | METAL GLAZE | 47K 5% | 1/10W |
| R351 | 1-216-674-11 | METAL CHIP | 9.1K 0.50% | 1/10W |
| R352 | 1-216-011-00 | METAL GLAZE | 27 5% | 1/10W |
| R353 | 1-216-001-00 | METAL GLAZE | 10 5% | 1/10W |
| R354 | 1-216-049-00 | METAL GLAZE | 1K 5% | 1/10W |
| R355 | 1-216-001-00 | METAL GLAZE | 10 5% | 1/10W |
| R356 | 1-216-001-00 | METAL GLAZE | 10 5% | 1/10W |
| R357 | 1-216-049-00 | METAL GLAZE | 1K 5% | 1/10W |
| R358 | 1-216-049-00 | METAL GLAZE | 1K 5% | 1/10W |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R359 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R360 | 1-216-119-00 | METAL GLAZE | 820K | 5% | 1/10W | |
| R361 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R362 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R363 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R364 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R365 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |
| R366 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R367 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R368 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R369 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R370 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R371 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R372 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | |
| R373 | 1-216-671-11 | METAL CHIP | 6.8K | 0.50% | 1/10W | |
| R374 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R375 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R376 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R377 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R378 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R379 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R380 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R381 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R382 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R383 | 1-216-653-11 | METAL CHIP | 1.2K | 0.50% | 1/10W | |
| R384 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R385 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R386 | 1-216-687-11 | METAL CHIP | 33K | 0.50% | 1/10W | |
| R387 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R388 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R389 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R390 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R391 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R393 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |
| R394 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W | |
| R395 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R396 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W | |
| R397 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R398 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R399 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R1301 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1302 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R1303 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R1304 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1305 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1306 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R1307 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1308 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1309 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1310 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R1311 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1312 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1313 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1314 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1315 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1316 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1317 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1318 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1319 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1320 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R1321 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1322 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R1323 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1324 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R1325 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1326 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1327 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1328 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1329 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R1330 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1331 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1332 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W | |
| R1333 | 1-216-129-00 | METAL GLAZE | 2.2M | 5% | 1/10W | |
| R1334 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1335 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1336 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1337 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1338 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1339 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1340 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1342 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1343 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W | |
| R1344 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R1345 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W | |
| R1346 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1347 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1348 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1349 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1350 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R1351 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1352 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R1353 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R1354 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1355 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |
| R1356 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R1357 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1358 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1362 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W | |
| R1363 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R1364 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R1373 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1374 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1379 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R1380 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R1381 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R1382 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R1383 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R1384 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1385 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R1386 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R1387 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R1388 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R1389 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1390 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1391 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1392 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1394 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1395 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1396 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R1399 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R5301 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R5302 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R5303 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R5304 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R5305 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |

# E1 E2

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | | <CRYSTAL> | | | |
| X301 | 1-567-505-11 | OSCILLATOR, CRYSTAL 3.95MHZ | | | |
| | | ********** | | | |
| | *A-1346-137-A | E2 BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | <CAPACITOR> | | | |
| C2302 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% | 50V | |
| C2303 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2310 | 1-163-105-00 | CERAMIC CHIP 33PF | 5% | 50V | |
| C2314 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2315 | 1-126-157-11 | ELECT 10MF | 20% | 16V | |
| C2316 | 1-126-157-11 | ELECT 10MF | 20% | 16V | |
| C2317 | 1-126-157-11 | ELECT 10MF | 20% | 16V | |
| C2318 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2320 | 1-124-589-11 | ELECT 47MF | 20% | 16V | |
| C2321 | 1-163-017-00 | CERAMIC CHIP 0.0047MF | 10% | 50V | |
| C2322 | 1-124-234-00 | ELECT 22MF | 20% | 16V | |
| C2323 | 1-124-234-00 | ELECT 22MF | 20% | 16V | |
| C2324 | 1-124-234-00 | ELECT 22MF | 20% | 16V | |
| C2325 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2326 | 1-124-589-11 | ELECT 47MF | 20% | 16V | |
| C2327 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V | |
| C2328 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2329 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2331 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2332 | 1-124-234-00 | ELECT 22MF | 20% | 16V | |
| C2333 | 1-124-234-00 | ELECT 22MF | 20% | 16V | |
| C2334 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2335 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2336 | 1-126-163-11 | ELECT 4.7MF | 20% | 16V | |
| C2337 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2338 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | |
| C2340 | 1-216-133-00 | METAL GLAZE 3.3M 5% | 1/10W | | |
| C2341 | 1-135-217-21 | TANTAL. CHIP 15MF | 20% | 6.3V | |
| C2345 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V | |
| C2346 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2347 | 1-163-367-11 | CERAMIC CHIP 39PF | 5% | 50V | |
| C2349 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V | |
| C2350 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2351 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V | |
| C2352 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V | |
| C2353 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2354 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C2357 | 1-126-301-11 | ELECT 1MF | 20% | 50V | |
| C2360 | 1-163-109-00 | CERAMIC CHIP 47PF | 5% | 50V | |
| | | <DIODE> | | | |
| D2306 | 8-719-404-46 | DIODE MA110 | | | |
| D2307 | 8-719-946-98 | DIODE FMN1 | | | |
| D2308 | 8-719-946-98 | DIODE FMN1 | | | |
| D2309 | 8-719-404-46 | DIODE MA110 | | | |
| D2312 | 8-719-404-46 | DIODE MA110 | | | |
| D2313 | 8-719-404-46 | DIODE MA110 | | | |
| D2314 | 8-713-300-57 | DIODE 1T33 | | | |
| D2317 | 8-719-404-46 | DIODE MA110 | | | |
| | | <CONNECTOR> | | | |
| E2-25 | *1-564-521-11 | PLUG, CONNECTOR 6P | | | |
| E2-26 | *1-564-522-11 | PLUG, CONNECTOR 7P | | | |
| E2-46 | *1-564-518-11 | PLUG, CONNECTOR 3P | | | |
| E2-002 | 1-573-965-21 | PIN, CONNECTOR (PC BOARD) 50P | | | |
| | | <IC> | | | |
| IC2301 | 8-759-066-52 | IC PCA8510T/012-T | | | |
| IC2303 | 8-759-925-75 | IC SN74HC05ANS | | | |
| IC2304 | 8-752-037-15 | IC CXA1387S | | | |
| IC2306 | 8-759-011-65 | IC MC74HC4053F | | | |
| IC2307 | 8-752-058-68 | IC CXA1315M | | | |
| | | <COIL> | | | |
| L2304 | 1-408-414-00 | INDUCTOR 27UH | | | |
| | | <TRANSISTOR> | | | |
| Q2301 | 8-729-903-10 | TRANSISTOR FMW1 | | | |
| Q2303 | 8-729-403-27 | TRANSISTOR XN4401 | | | |
| Q2304 | 8-729-925-79 | TRANSISTOR IMX3 | | | |
| Q2305 | 8-729-903-10 | TRANSISTOR FMW1 | | | |
| Q2306 | 8-729-403-27 | TRANSISTOR XN4401 | | | |
| Q2307 | 8-729-403-27 | TRANSISTOR XN4401 | | | |
| Q2308 | 8-729-403-27 | TRANSISTOR XN4401 | | | |
| Q2309 | 8-729-903-10 | TRANSISTOR FMW1 | | | |
| Q2310 | 8-729-403-27 | TRANSISTOR XN4401 | | | |
| Q2311 | 8-729-903-10 | TRANSISTOR FMW1 | | | |
| Q2312 | 8-729-403-27 | TRANSISTOR XN4401 | | | |
| Q2313 | 8-729-903-10 | TRANSISTOR FMW1 | | | |
| Q2314 | 8-729-403-27 | TRANSISTOR XN4401 | | | |
| Q2315 | 8-729-903-10 | TRANSISTOR FMW1 | | | |
| Q2317 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q2318 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q2319 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q2320 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q2321 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q2322 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q2324 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q2326 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q2327 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q2328 | 8-729-925-79 | TRANSISTOR IMX3 | | | |
| Q2329 | 8-729-925-79 | TRANSISTOR IMX3 | | | |
| Q2330 | 8-729-903-10 | TRANSISTOR FMW1 | | | |
| Q2336 | 8-729-925-79 | TRANSISTOR IMX3 | | | |
| Q2337 | 8-729-925-79 | TRANSISTOR IMX3 | | | |
| Q2339 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q2340 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q2341 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| | | <RESISTOR> | | | |
| R2302 | 1-216-049-00 | METAL GLAZE 1K | 5% | 1/10W | |
| R2303 | 1-216-049-00 | METAL GLAZE 1K | 5% | 1/10W | |
| R2304 | 1-216-049-00 | METAL GLAZE 1K | 5% | 1/10W | |
| R2305 | 1-216-033-00 | METAL GLAZE 220 | 5% | 1/10W | |
| R2306 | 1-216-045-00 | METAL GLAZE 680 | 5% | 1/10W | |
| R2307 | 1-216-045-00 | METAL GLAZE 680 | 5% | 1/10W | |
| R2308 | 1-216-045-00 | METAL GLAZE 680 | 5% | 1/10W | |
| R2309 | 1-216-041-00 | METAL GLAZE 470 | 5% | 1/10W | |
| R2310 | 1-216-055-00 | METAL GLAZE 1.8K | 5% | 1/10W | |
| R2311 | 1-216-025-00 | METAL GLAZE 100 | 5% | 1/10W | |
| R2312 | 1-216-043-00 | METAL GLAZE 560 | 5% | 1/10W | |
| R2313 | 1-216-055-00 | METAL GLAZE 1.8K | 5% | 1/10W | |
| R2314 | 1-216-061-00 | METAL GLAZE 3.3K | 5% | 1/10W | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R2315 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2317 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R2318 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W | |
| R2319 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R2320 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R2321 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R2322 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2323 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R2324 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2325 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2326 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R2327 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R2328 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R2329 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R2330 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R2331 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R2332 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R2333 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R2334 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R2335 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R2336 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R2337 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R2338 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2340 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2341 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R2342 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2343 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2344 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R2345 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R2346 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2347 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R2348 | 1-216-655-11 | METAL CHIP | 1.5K | 0.50% | 1/10W | |
| R2349 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R2350 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R2351 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R2352 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R2353 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R2354 | 1-216-210-00 | METAL GLAZE | 3.3K | 5% | 1/8W | |
| R2355 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W | |
| R2356 | 1-216-677-11 | METAL CHIP | 12K | 0.50% | 1/10W | |
| R2357 | 1-216-670-11 | METAL CHIP | 6.2K | 0.50% | 1/10W | |
| R2359 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R2360 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R2361 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R2362 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R2363 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R2364 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R2365 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R2366 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2367 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R2368 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2371 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R2374 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R2375 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2376 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2377 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R2378 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R2379 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R2380 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R2381 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R2382 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2384 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2385 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R2386 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2387 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R2388 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |
| R2389 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W | |
| R2390 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R2392 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W | |
| R2393 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |
| R2394 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2395 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R2396 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W | |
| R2397 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R2399 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R3301 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3302 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R3303 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R3304 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R3306 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R3307 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R3308 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R3309 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3310 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R3311 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R3312 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3313 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R3314 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W | |
| R3315 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R3316 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R3318 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R3319 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R3320 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |
| R3321 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R3323 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W | |
| R3324 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3325 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R3328 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R3330 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R3331 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R3332 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R3333 | 1-216-657-11 | METAL CHIP | 1.8K | 0.50% | 1/10W | |
| R3334 | 1-216-661-11 | METAL CHIP | 2.7K | 0.50% | 1/10W | |
| R3335 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R3336 | 1-216-683-11 | METAL CHIP | 22K | 0.50% | 1/10W | |
| R3337 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R3339 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R3340 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3341 | 1-216-677-11 | METAL CHIP | 12K | 0.50% | 1/10W | |
| R3342 | 1-216-670-11 | METAL CHIP | 6.2K | 0.50% | 1/10W | |
| R3343 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R3344 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R3347 | 1-216-687-11 | METAL CHIP | 33K | 0.50% | 1/10W | |
| R3348 | 1-216-681-11 | METAL CHIP | 18K | 0.50% | 1/10W | |
| R3349 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3350 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R3351 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R3352 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3353 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R3354 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R3356 | 1-216-655-11 | METAL CHIP | 1.5K | 0.50% | 1/10W | |
| R3357 | 1-216-654-11 | METAL CHIP | 1.3K | 0.50% | 1/10W | |
| R3358 | 1-216-659-11 | METAL CHIP | 2.2K | 0.50% | 1/10W | |
| R3359 | 1-216-653-11 | METAL CHIP | 1.2K | 0.50% | 1/10W | |
| R3360 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R3361 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3362 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |

# E2 M

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R3364 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R3365 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R3367 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R3368 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R3369 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R3370 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R3371 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R3373 | 1-216-673-11 | METAL CHIP | 8.2K | 0.50% | 1/10W | |
| R3374 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R3375 | 1-216-056-00 | METAL GLAZE | 2K | 5% | 1/10W | |
| R3375 | 1-216-658-11 | METAL CHIP | 2K | 0.50% | 1/10W | |
| R3376 | 1-216-647-11 | METAL CHIP | 680 | 0.50% | 1/10W | |
| R3377 | 1-216-647-11 | METAL CHIP | 680 | 0.50% | 1/10W | |
| R3378 | 1-216-659-11 | METAL CHIP | 2.2K | 0.50% | 1/10W | |
| R3379 | 1-216-655-11 | METAL CHIP | 1.5K | 0.50% | 1/10W | |
| R3380 | 1-216-661-11 | METAL CHIP | 2.7K | 0.50% | 1/10W | |
| R3381 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R3382 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R3392 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R3401 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R7312 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R7313 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W | |
| R7314 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |

<CRYSTAL>

| | | | |
|---|---|---|---|
| X2301 | 1-577-071-11 | VIBRATOR, CERAMIC 4MHZ | |

**********

*A-1306-436-A M BOARD, COMPLETE
**********

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C001 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C002 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V |
| C003 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C004 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C005 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V |
| C014 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C017 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C018 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C019 | 1-164-695-11 | CERAMIC CHIP | 0.0022MF | 5% | 50V |
| C020 | 1-163-241-11 | CERAMIC CHIP | 39PF | 5% | 50V |
| C021 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C029 | 1-163-115-00 | CERAMIC CHIP | 82PF | 5% | 50V |
| C030 | 1-163-115-00 | CERAMIC CHIP | 82PF | 5% | 50V |
| C034 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V |
| C035 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V |
| C036 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V |
| C041 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C042 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C045 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V |
| C047 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C048 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C049 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C055 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C064 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C065 | 1-124-257-00 | ELECT | 2.2MF | 20% | 50V |

<DIODE>

| | | |
|---|---|---|
| D001 | 8-719-404-46 | DIODE MA110 |
| D002 | 8-719-404-46 | DIODE MA110 |
| D009 | 8-719-404-46 | DIODE MA110 |
| D010 | 8-713-300-57 | DIODE 1T33 |
| D011 | 8-719-404-46 | DIODE MA110 |
| D012 | 8-719-404-46 | DIODE MA110 |
| D014 | 8-719-404-46 | DIODE MA110 |
| D015 | 8-719-404-46 | DIODE MA110 |

<IC>

| | | |
|---|---|---|
| IC001 | 8-759-169-06 | IC TMC73C247-10 |
| IC002 | 8-759-403-44 | IC MN1280-S |

<COIL>

| | | | |
|---|---|---|---|
| L001 | 1-408-409-00 | INDUCTOR | 10UH |
| L002 | 1-410-476-11 | INDUCTOR | 33UH |

<CONNECTOR>

| | | |
|---|---|---|
| M-39 | *1-564-521-11 | PLUG, CONNECTOR 6P |
| M-45 | *1-564-523-11 | PLUG, CONNECTOR 8P |
| M-001 | 1-573-965-21 | PIN, CONNECTOR (PC BOARD) 50P |

<TRANSISTOR>

| | | |
|---|---|---|
| Q001 | 8-729-216-22 | TRANSISTOR 2SA1162-G |
| Q009 | 8-729-422-27 | TRANSISTOR 2SD601A-Q |
| Q010 | 8-729-422-27 | TRANSISTOR 2SD601A-Q |
| Q011 | 8-729-422-27 | TRANSISTOR 2SD601A-Q |
| Q012 | 8-729-422-27 | TRANSISTOR 2SD601A-Q |
| Q013 | 8-729-216-22 | TRANSISTOR 2SA1162-G |
| Q014 | 8-729-422-27 | TRANSISTOR 2SD601A-Q |

<RESISTOR>

| | | | | | |
|---|---|---|---|---|---|
| R001 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R002 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R003 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| R004 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R005 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R006 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R007 | 1-216-027-00 | METAL GLAZE | 120 | 5% | 1/10W |
| R008 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R009 | 1-216-027-00 | METAL GLAZE | 120 | 5% | 1/10W |
| R011 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R012 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R013 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R014 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R015 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R016 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R017 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R018 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R019 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R033 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R034 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R035 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R036 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R037 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R038 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R039 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R040 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R041 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R042 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R043 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R044 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R045 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R046 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R047 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R048 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R049 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R050 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R051 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R052 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R053 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R054 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R055 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R056 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R057 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R058 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R059 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R060 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R063 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R064 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R065 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R066 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R067 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R068 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R069 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R070 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R071 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R072 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R073 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R074 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R075 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R076 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R077 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R078 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R079 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R080 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R081 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R082 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R083 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R084 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R085 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R086 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R087 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R088 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R089 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R090 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R091 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R092 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R093 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R094 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R095 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R096 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R097 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R098 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R099 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R100 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R101 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R102 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R103 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R104 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |

<CRYSTAL>

| | | | |
|---|---|---|---|
| X001 | 1-579-743-11 | VIBRATOR, CRYSTAL 6MHZ | |

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| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | *A-1195-066-A | P1 BOARD, COMPLETE | | | | |
| | | ********** | | | | |

<CAPACITOR>

| | | | | | | |
|---|---|---|---|---|---|---|
| C3001 | 1-124-589-11 | ELECT | 47MF | 20% | 16V | |
| C3002 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V | |
| C3003 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C3004 | 1-163-119-00 | CERAMIC CHIP | 120PF | 5% | 50V | |
| C3005 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C3006 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C3007 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V | |
| C3008 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C3009 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V | |
| C3010 | 1-163-145-00 | CERAMIC CHIP | 0.0015MF | 5% | 50V | |
| C3011 | 1-163-018-00 | CERAMIC CHIP | 0.0056MF | 10% | 50V | |
| C3012 | 1-164-336-11 | CERAMIC CHIP | 0.33MF | | 25V | |
| C3013 | 1-164-222-11 | CERAMIC CHIP | 0.22MF | | 25V | |
| C3014 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C3015 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C3016 | 1-163-107-00 | CERAMIC CHIP | 39PF | 5% | 50V | |
| C3017 | 1-130-495-00 | MYLAR | 0.1MF | 5% | 50V | |
| C3018 | 1-163-115-00 | CERAMIC CHIP | 82PF | 5% | 50V | |
| C3019 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C3020 | 1-163-105-00 | CERAMIC CHIP | 33PF | 5% | 50V | |
| C3021 | 1-163-115-00 | CERAMIC CHIP | 82PF | 5% | 50V | |
| C3022 | 1-126-301-11 | ELECT | 1MF | 20% | 50V | |
| C3023 | 1-124-589-11 | ELECT | 47MF | 20% | 16V | |
| C3024 | 1-163-018-00 | CERAMIC CHIP | 0.0056MF | 10% | 50V | |
| C3025 | 1-164-343-11 | CERAMIC CHIP | 0.056MF | 10% | 25V | |
| C3026 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V | |
| C3027 | 1-163-275-11 | CERAMIC CHIP | 0.001MF | 5% | 50V | |
| C3028 | 1-124-589-11 | ELECT | 47MF | 20% | 16V | |
| C3029 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V | |
| C3030 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 25V | |
| C3031 | 1-126-177-11 | ELECT | 100MF | 20% | 6.3V | |
| C3032 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C3033 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C3034 | 1-164-336-11 | CERAMIC CHIP | 0.33MF | | 25V | |
| C3035 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C3036 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C3037 | 1-124-589-11 | ELECT | 47MF | 20% | 16V | |
| C3038 | 1-136-287-11 | FILM | 0.0047MF | 5% | 50V | |
| C3039 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C3040 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C3042 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V | |
| C3043 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V | |
| C3044 | 1-126-301-11 | ELECT | 1MF | 20% | 50V | |
| C3045 | 1-124-589-11 | ELECT | 47MF | 20% | 16V | |
| C3046 | 1-126-301-11 | ELECT | 1MF | 20% | 50V | |
| C3047 | 1-126-301-11 | ELECT | 1MF | 20% | 50V | |
| C3048 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V | |
| C3051 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V | |
| C3052 | 1-126-177-11 | ELECT | 100MF | 20% | 6.3V | |
| C3053 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C3054 | 1-126-177-11 | ELECT | 100MF | 20% | 6.3V | |
| C3055 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V | |
| C3057 | 1-124-589-11 | ELECT | 47MF | 20% | 16V | |
| C3058 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V | |
| C3059 | 1-164-222-11 | CERAMIC CHIP | 0.22MF | | 25V | |
| C3060 | 1-124-589-11 | ELECT | 47MF | 20% | 16V | |
| C3064 | 1-163-123-00 | CERAMIC CHIP | 180PF | 5% | 50V | |

# P1

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C3065 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C3066 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3067 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C3069 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C3070 | 1-126-177-11 | ELECT | 100MF | 20% | 6.3V |
| C3071 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C3072 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C3073 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C3074 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C3076 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3077 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C3081 | 1-163-095-00 | CERAMIC CHIP | 12PF | 5% | 50V |
| C3100 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3101 | 1-163-115-00 | CERAMIC CHIP | 82PF | 5% | 50V |
| | | <CONNECTOR> | | | |
| CN151 | *1-573-965-11 | PIN, CONNECTOR (PC BOARD) 50P | | | |
| | | <DIODE> | | | |
| D3003 | 8-719-158-15 | DIODE RD5.6SB | | | |
| D3004 | 8-719-404-46 | DIODE MA110 | | | |
| D3009 | 8-719-404-46 | DIODE MA110 | | | |
| | | <IC> | | | |
| IC3001 | 8-759-046-25 | IC TDA3769 | | | |
| IC3002 | 8-759-009-46 | IC MC14528BF | | | |
| IC3003 | 8-759-513-48 | IC TDA2595/V9 | | | |
| IC3004 | 8-759-088-90 | IC SDA9187X | | | |
| IC3005 | 8-759-088-91 | IC SDA9188X | | | |
| IC3006 | 8-759-112-06 | IC UPC78N05H | | | |
| IC3007 | 8-759-046-27 | IC SDA9086-3 | | | |
| IC3008 | 8-759-112-06 | IC UPC78N05H | | | |
| | | <COIL> | | | |
| L3001 | 1-410-476-11 | INDUCTOR | 33UH | | |
| L3002 | 1-408-424-00 | INDUCTOR | 180UH | | |
| L3003 | 1-408-424-00 | INDUCTOR | 180UH | | |
| L3004 | 1-410-470-11 | INDUCTOR | 10UH | | |
| L3005 | 1-410-472-41 | INDUCTOR | 15UH | | |
| L3006 | 1-412-788-41 | INDUCTOR | 10UH | | |
| L3007 | 1-410-472-41 | INDUCTOR | 15UH | | |
| L3008 | 1-410-472-41 | INDUCTOR | 15UH | | |
| L3009 | 1-410-472-41 | INDUCTOR | 15UH | | |
| L3010 | 1-410-466-41 | INDUCTOR | 4.7UH | | |
| L3011 | 1-410-470-11 | INDUCTOR | 10UH | | |
| L3012 | 1-410-676-31 | INDUCTOR | 150UH | | |
| L3013 | 1-412-911-11 | INDUCTOR, FERRITE BEAD | | | |
| L3014 | 1-412-911-11 | INDUCTOR, FERRITE BEAD | | | |
| L3015 | 1-412-911-11 | INDUCTOR, FERRITE BEAD | | | |
| L3100 | 1-410-392-11 | INDUCTOR | 82UH | | |
| | | <TRANSISTOR> | | | |
| Q3003 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q3004 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q3006 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q3007 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q3008 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q3009 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q3010 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q3011 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q3012 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q3013 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q3014 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q3100 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| | | <RESISTOR> | | | |
| JR3 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| R3001 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W |
| R3002 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R3003 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R3004 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W |
| R3005 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W |
| R3006 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3007 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W |
| R3008 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3009 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3010 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3011 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3012 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W |
| R3013 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3014 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3015 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3017 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W |
| R3018 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3019 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R3020 | 1-216-099-00 | METAL GLAZE | 120K | 5% | 1/10W |
| R3021 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W |
| R3023 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3025 | 1-216-015-00 | METAL GLAZE | 39 | 5% | 1/10W |
| R3026 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3027 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R3028 | 1-216-027-00 | METAL GLAZE | 120 | 5% | 1/10W |
| R3030 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3031 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W |
| R3032 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3033 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| R3034 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3035 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R3036 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R3037 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W |
| R3038 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3039 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3040 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3041 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3042 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R3043 | 1-216-099-00 | METAL GLAZE | 120K | 5% | 1/10W |
| R3044 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R3045 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| R3050 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R3052 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R3053 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W |
| R3055 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W |
| R3056 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R3057 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R3058 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3059 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W |
| R3060 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3061 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3062 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3063 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R3064 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |

P1 X2

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R3065 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3066 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R3067 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R3069 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W | |
| R3071 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3073 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3074 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R3075 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3076 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R3077 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R3078 | 1-216-044-00 | METAL GLAZE | 620 | 5% | 1/10W | |
| R3079 | 1-216-040-00 | METAL GLAZE | 430 | 5% | 1/10W | |
| R3082 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | |
| R3084 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3085 | 1-216-119-00 | METAL GLAZE | 820K | 5% | 1/10W | |
| R3086 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R3087 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R3088 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R3089 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R3090 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R3091 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R3092 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R3098 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| R3099 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| R3100 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| R3101 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |
| R3102 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W | |
| R3103 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R3104 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |

<VARIABLE RESISTOR>

| | | |
|---|---|---|
| RV3001 | 1-241-630-11 | RES, ADJ, CARBON 10K |
| RV3002 | 1-238-019-11 | RES, ADJ, CARBON 47K |
| RV3003 | 1-241-630-11 | RES, ADJ, CARBON 10K |

<CRYSTAL>

| | | |
|---|---|---|
| X3001 | 1-567-505-11 | OSCILLATOR, CRYSTAL 3.58MHZ |

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*A-1394-444-A X2 BOARD, COMPLETE
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<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C2501 | 1-163-020-00 | CERAMIC CHIP | 0.0082MF | 10% | 50V |
| C2502 | 1-163-020-00 | CERAMIC CHIP | 0.0082MF | 10% | 50V |
| C2503 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C2504 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2505 | 1-163-020-00 | CERAMIC CHIP | 0.0082MF | 10% | 50V |
| C2506 | 1-163-020-00 | CERAMIC CHIP | 0.0082MF | 10% | 50V |
| C2507 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C2508 | 1-163-020-00 | CERAMIC CHIP | 0.0082MF | 10% | 50V |
| C2509 | 1-163-020-00 | CERAMIC CHIP | 0.0082MF | 10% | 50V |
| C2510 | 1-163-989-11 | CERAMIC CHIP | 0.033MF | 10% | 25V |
| C2511 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2512 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2513 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2514 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2515 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2516 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2517 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C2518 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2519 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2520 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2521 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C2522 | 1-124-252-00 | ELECT | 0.33MF | 20% | 50V |
| C2523 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2524 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2525 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2526 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2527 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C2528 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V |
| C2529 | 1-163-989-11 | CERAMIC CHIP | 0.033MF | 10% | 25V |
| C2530 | 1-164-182-11 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C2531 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2532 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2533 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C2534 | 1-163-257-11 | CERAMIC CHIP | 180PF | 5% | 50V |
| C2535 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2536 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2537 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2538 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2539 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2540 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2541 | 1-163-139-00 | CERAMIC CHIP | 820PF | 5% | 50V |
| C2542 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C2543 | 1-124-252-00 | ELECT | 0.33MF | 20% | 50V |
| C2544 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C2545 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2546 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2547 | 1-126-163-11 | ELECT | 4.7MF | 20% | 25V |
| C2548 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C2549 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2550 | 1-126-163-11 | ELECT | 4.7MF | 20% | 25V |
| C2551 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2552 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2553 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2554 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C2555 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2556 | 1-124-257-00 | ELECT | 2.2MF | 20% | 50V |
| C2557 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C2558 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2559 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C2560 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C2561 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2562 | 1-163-263-11 | CERAMIC CHIP | 330PF | 5% | 50V |
| C2563 | 1-163-257-11 | CERAMIC CHIP | 180PF | 5% | 50V |
| C2564 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2565 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2566 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2567 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2568 | 1-163-263-11 | CERAMIC CHIP | 330PF | 5% | 50V |
| C2569 | 1-163-257-11 | CERAMIC CHIP | 180PF | 5% | 50V |
| C2570 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C2571 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2572 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2573 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C2574 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2575 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2576 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C2577 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2578 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C2579 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C2580 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C2581 | 1-163-109-00 | CERAMIC CHIP | 47PF | 5% | 50V |

# X2

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C2582 | 1-124-477-11 | ELECT | 47MF | 20% | 25V | |
| C2583 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V | |
| C2584 | 1-163-109-00 | CERAMIC CHIP | 47PF | 5% | 50V | |
| C2585 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V | |
| C2586 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V | |
| C2587 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V | |
| C2588 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V | |
| C2589 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V | |
| C2590 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V | |
| C2591 | 1-124-478-11 | ELECT | 100MF | 20% | 25V | |
| | | <DIODE> | | | | |
| D2501 | 8-719-104-24 | DIODE 1S2835-T1 | | | | |
| D2502 | 8-719-106-88 | DIODE RD15M-B1 | | | | |
| D2503 | 8-719-106-88 | DIODE RD15M-B1 | | | | |
| D2504 | 8-719-106-88 | DIODE RD15M-B1 | | | | |
| | | <IC> | | | | |
| IC2501 | 8-759-031-31 | IC MC33174M | | | | |
| IC2502 | 8-752-050-75 | IC CXA1373Q | | | | |
| IC2503 | 8-759-604-70 | IC M51523AL | | | | |
| IC2504 | 8-759-031-31 | IC MC33174M | | | | |
| IC2505 | 8-759-604-70 | IC M51523AL | | | | |
| IC2506 | 8-759-106-22 | IC UPD4052BG | | | | |
| IC2507 | 8-759-038-68 | IC MC33172ML | | | | |
| IC2508 | 8-759-038-68 | IC MC33172ML | | | | |
| | | <JACK> | | | | |
| J2501 | *1-573-966-11 | PIN, CONNECTOR (PC BOARD) 36P | | | | |
| | | <TRANSISTOR> | | | | |
| Q2501 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | | | | |
| | | <RESISTOR> | | | | |
| R2501 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R2502 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R2503 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R2504 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W | |
| R2505 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W | |
| R2506 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W | |
| R2507 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R2508 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R2509 | 1-216-130-11 | METAL GLAZE | 2.4M | 5% | 1/10W | |
| R2510 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R2511 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R2512 | 1-216-103-00 | METAL GLAZE | 180K | 5% | 1/10W | |
| R2513 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R2514 | 1-216-103-00 | METAL GLAZE | 180K | 5% | 1/10W | |
| R2515 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2516 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R2517 | 1-216-133-00 | METAL GLAZE | 3.3M | 5% | 1/10W | |
| R2518 | 1-216-072-00 | METAL GLAZE | 9.1K | 5% | 1/10W | |
| R2519 | 1-216-133-00 | METAL GLAZE | 3.3M | 5% | 1/10W | |
| R2520 | 1-216-133-00 | METAL GLAZE | 3.3M | 5% | 1/10W | |
| R2521 | 1-216-133-00 | METAL GLAZE | 3.3M | 5% | 1/10W | |
| R2522 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R2523 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R2524 | 1-216-129-00 | METAL GLAZE | 2.2M | 5% | 1/10W | |
| R2526 | 1-216-133-00 | METAL GLAZE | 3.3M | 5% | 1/10W | |
| R2527 | 1-216-133-00 | METAL GLAZE | 3.3M | 5% | 1/10W | |
| R2528 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2529 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2530 | 1-216-133-00 | METAL GLAZE | 3.3M | 5% | 1/10W | |
| R2531 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R2532 | 1-216-133-00 | METAL GLAZE | 3.3M | 5% | 1/10W | |
| R2533 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R2534 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2535 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2536 | 1-216-129-00 | METAL GLAZE | 2.2M | 5% | 1/10W | |
| R2537 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R2539 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R2540 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R2541 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R2542 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2543 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2544 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2545 | 1-216-048-00 | METAL GLAZE | 910 | 5% | 1/10W | |
| R2546 | 1-216-133-00 | METAL GLAZE | 3.3M | 5% | 1/10W | |
| R2547 | 1-216-133-00 | METAL GLAZE | 3.3M | 5% | 1/10W | |
| R2548 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2549 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R2550 | 1-216-088-00 | METAL GLAZE | 43K | 5% | 1/10W | |
| R2551 | 1-216-088-00 | METAL GLAZE | 43K | 5% | 1/10W | |
| R2552 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2553 | 1-216-078-00 | METAL GLAZE | 16K | 5% | 1/10W | |
| R2554 | 1-216-082-00 | METAL GLAZE | 24K | 5% | 1/10W | |
| R2555 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R2556 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2557 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R2558 | 1-216-088-00 | METAL GLAZE | 43K | 5% | 1/10W | |
| R2559 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R2560 | 1-216-103-00 | METAL GLAZE | 180K | 5% | 1/10W | |
| R2561 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R2562 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R2563 | 1-216-088-00 | METAL GLAZE | 43K | 5% | 1/10W | |
| R2564 | 1-216-088-00 | METAL GLAZE | 43K | 5% | 1/10W | |
| R2565 | 1-216-103-00 | METAL GLAZE | 180K | 5% | 1/10W | |
| R2566 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2567 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2568 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2569 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R2570 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R2571 | 1-216-078-00 | METAL GLAZE | 16K | 5% | 1/10W | |
| R2572 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2573 | 1-216-082-00 | METAL GLAZE | 24K | 5% | 1/10W | |
| R2574 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R2575 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R2576 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2577 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2578 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2579 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2580 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2581 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2582 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R2583 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R2584 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2585 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2586 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R2587 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R2588 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R2589 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R2590 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R2591 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |

X2 | Y2

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R2592 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2593 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R2594 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2595 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R2596 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2597 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2598 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R2599 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2600 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2601 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R2602 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R2604 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R2605 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2606 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R2610 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R2611 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R2612 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R2613 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R2614 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R2615 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R2616 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R2617 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R2618 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R2619 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |

**********

*A-1394-443-A Y2 BOARD, COMPLETE
**********

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C401 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C424 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C425 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C426 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C427 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V |
| C428 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C429 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C430 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C431 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C432 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C433 | 1-131-347-00 | TANTALUM | 1MF | 20% | 16V |
| C434 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C435 | 1-130-309-00 | FILM | 0.033MF | 5% | 100V |
| C436 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C437 | 1-130-487-00 | MYLAR | 0.022MF | 5% | 50V |
| C438 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C439 | 1-124-034-51 | ELECT | 33MF | 20% | 16V |
| C440 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C441 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C442 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C443 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C446 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C447 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C448 | 1-136-170-00 | FILM | 0.27MF | 5% | 50V |
| C449 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C450 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V |
| C451 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C452 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C453 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V |
| C454 | 1-131-368-00 | TANTALUM | 3.3MF | 10% | 16V |
| C455 | 1-131-347-00 | TANTALUM | 1MF | 20% | 16V |
| C456 | 1-136-171-00 | FILM | 0.33MF | 5% | 50V |
| C457 | 1-136-175-00 | FILM | 0.68MF | 5% | 50V |
| C458 | 1-126-101-11 | ELECT | 100MF | 20% | 16V |
| C459 | 1-126-101-11 | ELECT | 100MF | 20% | 16V |
| C460 | 1-126-101-11 | ELECT | 100MF | 20% | 16V |
| C461 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C462 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C465 | 1-130-485-00 | MYLAR | 0.015MF | 5% | 50V |
| C466 | 1-130-485-00 | MYLAR | 0.015MF | 5% | 50V |
| C467 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C468 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C469 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C470 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C471 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C472 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C473 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C474 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C475 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C476 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C477 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C478 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C479 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C480 | 1-124-768-11 | ELECT | 4.7MF | 20% | 50V |
| C481 | 1-124-768-11 | ELECT | 4.7MF | 20% | 50V |
| C482 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C483 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V |
| C484 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V |
| C485 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C487 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C488 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |

<DIODE>

| | | |
|---|---|---|
| D405 | 8-719-107-13 | DIODE RD18M-B1 |
| D406 | 8-719-107-13 | DIODE RD18M-B1 |
| D407 | 8-719-107-13 | DIODE RD18M-B1 |
| D408 | 8-719-105-83 | DIODE RD5.1M-B3 |
| D409 | 8-719-981-50 | DIODE RB100A |
| D410 | 8-719-981-50 | DIODE RB100A |
| D413 | 8-719-158-19 | DIODE RD6.2SB |
| D414 | 8-719-158-55 | DIODE RD15SB |
| D415 | 8-719-158-55 | DIODE RD15SB |

<IC>

| | | |
|---|---|---|
| IC403 | 8-759-996-43 | IC RC4558PS |
| IC404 | 8-759-067-24 | IC 24C04A1/P |
| IC406 | 8-752-037-24 | IC CXA1264AS |
| IC407 | 8-759-245-75 | IC TA8184P |
| IC408 | 8-752-057-18 | IC CXA1315P |

<TRANSISTOR>

| | | |
|---|---|---|
| Q404 | 8-729-216-22 | TRANSISTOR 2SA1162-G |
| Q405 | 8-729-216-22 | TRANSISTOR 2SA1162-G |
| Q409 | 8-729-422-27 | TRANSISTOR 2SD601A-Q |
| Q410 | 8-729-422-27 | TRANSISTOR 2SD601A-Q |

<RESISTOR>

| | | | | | |
|---|---|---|---|---|---|
| R447 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R453 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R464 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R465 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R466 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R467 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |

Y2 G

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R468 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R469 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W | |
| R470 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R471 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R472 | 1-216-686-11 | METAL CHIP | 30K | 0.50% | 1/10W | |
| R473 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R474 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R475 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W | |
| R476 | 1-216-669-11 | METAL CHIP | 5.6K | 0.50% | 1/10W | |
| R477 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R478 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R479 | 1-216-669-11 | METAL CHIP | 5.6K | 0.50% | 1/10W | |
| R480 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R481 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R482 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R483 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R485 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R486 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R488 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R494 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R495 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R496 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R497 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R498 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R499 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R500 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R501 | 1-216-669-11 | METAL CHIP | 5.6K | 0.50% | 1/10W | |
| R502 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R503 | 1-216-663-11 | METAL CHIP | 3.3K | 0.50% | 1/10W | |
| R504 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R507 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R509 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R510 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R512 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R513 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W | |
| R515 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R517 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R518 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R519 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R521 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R522 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R523 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R524 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R525 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R526 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R527 | 1-218-754-11 | METAL CHIP | 120K | 0.50% | 1/10W | |
| R528 | 1-216-691-11 | METAL CHIP | 47K | 0.50% | 1/10W | |
| R529 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R531 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R532 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R533 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R535 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R536 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R537 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R538 | 1-218-754-11 | METAL CHIP | 120K | 0.50% | 1/10W | |
| R539 | 1-216-691-11 | METAL CHIP | 47K | 0.50% | 1/10W | |
| R542 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R543 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R546 | 1-216-682-11 | METAL CHIP | 20K | 0.50% | 1/10W | |
| R547 | 1-216-681-11 | METAL CHIP | 18K | 0.50% | 1/10W | |

<CONNECTOR>

Y2-401 1-573-966-11 PIN, CONNECTOR (PC BOARD) 36P

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | *A-1316-161-A | G BOARD, COMPLETE | | | |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) | | | |

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C601 ⚠ | 1-136-311-51 | FILM | 0.47MF | 20% | 125V |
| C602 ⚠ | 1-162-599-81 | CERAMIC | 0.0047MF | 20% | 400V |
| C603 ⚠ | 1-162-599-81 | CERAMIC | 0.0047MF | 20% | 400V |
| C604 ⚠ | 1-104-346-11 | ELECT | 1000MF | | 200V |
| C605 | 1-162-599-12 | CERAMIC | 0.0047MF | 20% | 400V |
| C606 | 1-130-851-00 | FILM | 0.082MF | 5% | 100V |
| C607 | 1-130-851-00 | FILM | 0.082MF | 5% | 100V |
| C608 | 1-130-851-00 | FILM | 0.082MF | 5% | 100V |
| C609 | 1-130-851-00 | FILM | 0.082MF | 5% | 100V |
| C610 | 1-137-588-11 | FILM | 0.0047MF | 5% | 800V |
| C611 | 1-137-592-11 | FILM | 0.01MF | 5% | 800V |
| C612 | 1-164-625-11 | CERAMIC | 680PF | 10% | 500V |
| C613 | 1-164-625-11 | CERAMIC | 680PF | 10% | 500V |
| C614 | 1-164-625-11 | CERAMIC | 680PF | 10% | 500V |
| C615 | 1-164-625-11 | CERAMIC | 680PF | 10% | 500V |
| C616 | 1-124-443-00 | ELECT | 100MF | 20% | 10V |
| C618 | 1-164-735-11 | CAP, CERAMIC | 1500PF | | |
| C619 | 1-164-735-11 | CAP, CERAMIC | 1500PF | | |
| C620 ⚠ | 1-161-741-51 | CERAMIC | 0.001MF | 10% | 400V |
| C621 ⚠ | 1-161-741-51 | CERAMIC | 0.001MF | 10% | 400V |
| C622 | 1-162-599-12 | CERAMIC | 0.0047MF | 20% | 400V |
| C623 | 1-137-493-11 | FILM | 0.0047MF | 5% | 630V |
| C624 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C625 | 1-126-162-11 | ELECT | 3.3MF | 20% | 50V |
| C626 | 1-130-480-00 | MYLAR | 0.0056MF | 5% | 50V |
| C651 | 1-104-702-11 | ELECT | 470MF | 20% | 180V |
| C652 | 1-124-556-11 | ELECT | 2200MF | 20% | 16V |
| C653 | 1-124-913-11 | ELECT | 470MF | 20% | 50V |
| C654 | 1-124-607-11 | ELECT | 2200MF | 20% | 50V |
| C655 | 1-162-117-00 | CERAMIC | 100PF | 10% | 500V |
| C656 | 1-124-119-00 | ELECT | 330MF | 20% | 16V |
| C657 | 1-106-351-00 | MYLAR | 0.0022MF | | 200V |
| C658 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |
| C659 | 1-130-485-00 | MYLAR | 0.015MF | 5% | 50V |
| C661 | 1-124-484-11 | ELECT | 220MF | 20% | 35V |
| C662 | 1-124-484-11 | ELECT | 220MF | 20% | 35V |
| C663 | 1-126-104-11 | ELECT | 470MF | 20% | 35V |
| C666 | 1-126-101-11 | ELECT | 100MF | 20% | 16V |
| C667 | 1-124-443-00 | ELECT | 100MF | 20% | 10V |
| C668 | 1-124-638-11 | ELECT | 22MF | 20% | 6.3V |
| C669 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C670 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C672 | 1-124-484-11 | ELECT | 220MF | 20% | 35V |
| C677 ⚠ | 1-136-311-51 | FILM | 0.47MF | 20% | 125V |
| C678 | 1-124-360-00 | ELECT | 1000MF | 20% | 16V |

<DIODE>

| | | | |
|---|---|---|---|
| D601 ⚠ | 8-719-022-99 | DIODE | D6SB60L |
| D602 | 8-719-510-48 | DIODE | D1N20R |
| D603 | 8-719-510-48 | DIODE | D1N20R |
| D604 | 8-719-510-48 | DIODE | D1N20R |
| D605 | 8-719-510-48 | DIODE | D1N20R |

G

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D606 | 8-719-911-19 | DIODE 1SS119 | |
| D607 | 8-719-510-48 | DIODE D1N20R | |
| D608 | 8-719-510-48 | DIODE D1N20R | |
| D609 | 8-719-510-48 | DIODE D1N20R | |
| D610 | 8-719-510-48 | DIODE D1N20R | |
| D611 | 8-719-510-48 | DIODE D1N20R | |
| D612 | 8-719-510-48 | DIODE D1N20R | |
| D613 | 8-719-109-93 | DIODE RD6.2ES-B2 | |
| D651 | 8-719-027-43 | DIODE S2L20UF | |
| D652 | 8-719-027-43 | DIODE S2L20UF | |
| D653 | 8-719-027-43 | DIODE S2L20UF | |
| D654 | 8-719-027-43 | DIODE S2L20UF | |
| D655 | 8-719-510-13 | DIODE D10SC4MR | |
| D656 | 8-719-022-97 | DIODE D2S4MF | |
| D657 | 8-719-510-02 | DIODE D1NS4 | |
| D658 | 8-719-027-22 | DIODE D3S6M-F | |
| D659 | 8-719-027-22 | DIODE D3S6M-F | |
| D660 | 8-719-027-22 | DIODE D3S6M-F | |
| D661 | 8-719-027-22 | DIODE D3S6M-F | |
| D663 | 8-719-510-02 | DIODE D1NS4 | |
| D665 | 8-719-510-02 | DIODE D1NS4 | |
| D666 | 8-719-109-85 | DIODE RD5.1ES-B2 | |
| D667 | 8-719-911-19 | DIODE 1SS119 | |
| D668 | 8-719-911-19 | DIODE 1SS119 | |
| D669 | 8-719-109-54 | DIODE RD2.2ES-B2 | |
| D670 | 8-719-911-19 | DIODE 1SS119 | |
| D671 | 8-719-110-31 | DIODE RD12ES-B2 | |
| D672 | 8-719-911-19 | DIODE 1SS119 | |
| | | <FUSE> | |
| F1 | ⚠ 1-532-783-21 | FUSE, MICRO (SECONDARY) 5A/125V | |
| F601 | ⚠ 1-576-222-11 | FUSE 6.3A/125V | |
| | 1-533-190-11 | CLIP, FUSE; F601 | |
| F602 | ⚠ 1-576-107-22 | FUSE 3.15A/250V | |
| | 1-533-223-11 | CLIP, FUSE; F602 | |
| | | <FERRITE BEAD> | |
| FB651 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| FB652 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| FB653 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| FB654 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| FB655 | 1-412-911-11 | INDUCTOR, FERRITE BEAD 1.1UH | |
| FB656 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| FB659 | 1-412-911-11 | INDUCTOR, FERRITE BEAD 1.1UH | |
| FB660 | 1-412-911-11 | INDUCTOR, FERRITE BEAD 1.1UH | |
| FB661 | 1-412-911-11 | INDUCTOR, FERRITE BEAD 1.1UH | |
| FB662 | 1-412-911-11 | INDUCTOR, FERRITE BEAD 1.1UH | |
| FB663 | 1-412-911-11 | INDUCTOR, FERRITE BEAD 1.1UH | |
| FB669 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| FB670 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| | | <CONNECTOR> | |
| G-3 | *1-573-986-11 | PIN, CONNECTOR (PC BOARD) 5P | |
| G-4 | *1-564-510-11 | PLUG, CONNECTOR 7P | |
| G-5 | *1-564-507-11 | PLUG, CONNECTOR 4P | |
| G-29 | *1-508-786-00 | PIN, CONNECTOR (5MM PITCH) 2P | |
| G-30 | *1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P | |
| G-31 | ⚠ *1-580-843-11 | PIN, CONNECTOR (POWER) | |
| TP651 | 1-508-784-00 | PIN, CONNECTOR (5MM PITCH) 1P | |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | <IC> | |
| IC651 | ⚠ 1-809-524-12 | POWER MODULE DM-44A | |
| IC654 | 8-719-156-73 | PHOTO COUPLER PS2501-1LB | |
| | | <COIL> | |
| L651 | 1-412-526-11 | INDUCTOR 12UH | |
| L652 | 1-410-673-31 | INDUCTOR 68UH | |
| L653 | 1-412-532-11 | INDUCTOR 39UH | |
| L654 | 1-412-532-11 | INDUCTOR 39UH | |
| L655 | 1-412-532-11 | INDUCTOR 39UH | |
| L656 | 1-412-526-11 | INDUCTOR 12UH | |
| | | <TRANSISTOR> | |
| Q601 | 8-729-927-22 | TRANSISTOR 2SC4664MNP-F | |
| Q602 | 8-729-927-22 | TRANSISTOR 2SC4664MNP-F | |
| Q603 | 8-729-927-22 | TRANSISTOR 2SC4664MNP-F | |
| Q604 | 8-729-927-22 | TRANSISTOR 2SC4664MNP-F | |
| Q605 | 8-729-209-15 | TRANSISTOR 2SD2012 | |
| Q652 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q653 | 8-729-201-53 | TRANSISTOR 2SA1015-GR | |
| Q654 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q655 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q656 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| | | <RESISTOR> | |
| R601 | 1-249-388-11 | CARBON 3.9 5% 1/4W | F |
| R602 | ⚠ 1-205-707-12 | WIREWOUND 2.2 5% 10W | |
| R603 | 1-247-889-00 | CARBON 270K 5% 1/4W | |
| R604 | 1-216-443-11 | METAL OXIDE 56K 5% 1W | F |
| R605 | 1-216-443-11 | METAL OXIDE 56K 5% 1W | F |
| R606 | 1-216-443-11 | METAL OXIDE 56K 5% 1W | F |
| R607 | 1-216-443-11 | METAL OXIDE 56K 5% 1W | F |
| R608 | 1-216-352-11 | METAL OXIDE 1.8 5% 1W | F |
| R609 | 1-216-351-00 | METAL OXIDE 1.5 5% 1W | F |
| R610 | 1-216-351-00 | METAL OXIDE 1.5 5% 1W | F |
| R611 | 1-216-352-11 | METAL OXIDE 1.8 5% 1W | F |
| R612 | 1-249-377-11 | CARBON 0.47 5% 1/4W | F |
| R613 | 1-215-447-00 | METAL 12K 1% 1/4W | |
| R614 | 1-215-433-00 | METAL 3.3K 1% 1/4W | |
| R615 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R616 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R617 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R618 | 1-247-688-11 | CARBON 10 5% 1/4W | F |
| R619 | ⚠ 1-216-343-91 | METAL OXIDE 0.33 5% 1W | F |
| R620 | 1-202-730-00 | SOLID 8.2M 20% 1/2W | |
| R621 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R622 | ⚠ 1-202-888-91 | SOLID 2.2M 20% 1/2W | |
| R623 | 1-212-956-00 | FUSIBLE 8.2 5% 1/2W | F |
| R651 | 1-249-405-11 | CARBON 100 5% 1/4W | F |
| R652 | 1-215-868-00 | METAL OXIDE 680 5% 1W | F |
| R653 | 1-249-405-11 | CARBON 100 5% 1/4W | |
| R654 | 1-249-399-11 | CARBON 33 5% 1/4W | F |
| R655 | 1-249-393-11 | CARBON 10 5% 1/4W | F |
| R656 | 1-249-443-11 | CARBON 0.47 5% 1/4W | F |
| R657 | 1-216-357-00 | METAL OXIDE 4.7 5% 1W | F |
| R658 | 1-215-408-00 | METAL 300 1% 1/4W | |
| R659 | 1-249-443-11 | CARBON 0.47 5% 1/4W | F |
| R660 | 1-215-446-00 | METAL 11K 1% 1/4W | |
| R661 | 1-215-418-00 | METAL 750 1% 1/4W | |
| R662 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |

G C

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R663 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | |
| R664 | 1-215-861-00 | METAL OXIDE | 47 | 5% | 1W | F |
| R665 | 1-215-403-00 | METAL | 180 | 1% | 1/4W | |
| R666 | 1-215-421-00 | METAL | 1K | 1% | 1/4W | |
| R667 | 1-215-432-00 | METAL | 3K | 1% | 1/4W | |
| R668 | 1-216-482-11 | METAL OXIDE | 1.8K | 5% | 3W | F |
| R669 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R670 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W | |
| R671 | 1-216-384-11 | METAL OXIDE | 0.39 | 5% | 3W | F |
| R672 | 1-249-443-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R673 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | |
| R674 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R675 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | |
| R676 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R677 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R678 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R679 | 1-216-428-00 | METAL OXIDE | 180 | 5% | 1W | F |
| R680 | 1-216-428-00 | METAL OXIDE | 180 | 5% | 1W | F |
| R681 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R682 | 1-249-443-11 | CARBON | 0.47 | 5% | 1/4W | F |

<RELAY>

| | | | |
|---|---|---|---|
| RY601⚠ | 1-515-601-11 | RELAY | |
| RY602⚠ | 1-515-669-21 | RELAY | |

<TRANSFORMER>

| | | | |
|---|---|---|---|
| T601 ⚠ | 1-424-585-11 | TRANSFORMER, LINE FILTER | |
| T602 ⚠ | 1-424-585-11 | TRANSFORMER, LINE FILTER | |
| T603 | 1-450-300-31 | TRANSFORMER, CONVERTER DRIVE | |
| T604 ⚠ | 1-450-958-12 | TRANSFORMER, CONVERTER (PRT) | |
| T605 | 1-424-663-11 | TRANSFORMER, FERRITE (SBT) | |

<THERMISTOR>

| | | | |
|---|---|---|---|
| THP601⚠ | 1-800-686-43 | THERMISTOR (POSITIVE) | |

<VARISTOR>

| | | | |
|---|---|---|---|
| VDR601⚠ | 1-809-786-11 | VARISTOR | |
| VDR602⚠ | 1-809-264-81 | VARISTOR | |

**********

*A-1331-272-A C BOARD, COMPLETE
**********

<CONNECTOR>

| | | | |
|---|---|---|---|
| C-2 | *1-573-964-11 | PIN, CONNECTOR (PC BOARD) 6P | |
| C-24 | *1-564-511-51 | PLUG, CONNECTOR 8P | |
| C-42 | *1-691-134-11 | PIN, CONNECTOR (PC BOARD) 2P | |

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C701 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C702 | 1-137-490-11 | FILM | 0.01MF | 10% | 1KV |
| C704 | 1-123-946-00 | ELECT | 4.7MF | 20% | 250V |
| C705 | 1-106-375-12 | MYLAR | 0.022MF | | 200V |
| C706 | 1-106-375-12 | MYLAR | 0.022MF | | 200V |
| C707 | 1-164-083-11 | CERAMIC | 680PF | 10% | 50V |
| C708 | 1-164-083-11 | CERAMIC | 680PF | 10% | 50V |
| C709 | 1-164-083-11 | CERAMIC | 680PF | 10% | 50V |
| C710 | 1-164-082-11 | CERAMIC | 560PF | 10% | 50V |
| C711 | 1-124-120-11 | ELECT | 220MF | 20% | 16V |
| C712 | 1-164-082-11 | CERAMIC | 560PF | 10% | 50V |
| C713 | 1-164-082-11 | CERAMIC | 560PF | 10% | 50V |
| C715 | 1-102-129-00 | CERAMIC | 0.01MF | 10% | 50V |
| C718 | 1-102-129-00 | CERAMIC | 0.01MF | 10% | 50V |
| C733 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |

<DIODE>

| | | |
|---|---|---|
| D701 | 8-719-911-19 | DIODE 1SS119 |
| D702 | 8-719-911-19 | DIODE 1SS119 |
| D703 | 8-719-911-19 | DIODE 1SS119 |
| D704 | 8-719-911-19 | DIODE 1SS119 |
| D705 | 8-719-911-19 | DIODE 1SS119 |
| D706 | 8-719-911-19 | DIODE 1SS119 |
| D707 | 8-719-911-19 | DIODE 1SS119 |
| D708 | 8-719-911-19 | DIODE 1SS119 |
| D709 | 8-719-911-19 | DIODE 1SS119 |
| D710 | 8-719-901-83 | DIODE 1SS83 |
| D711 | 8-719-901-83 | DIODE 1SS83 |
| D712 | 8-719-901-83 | DIODE 1SS83 |
| D713 | 8-719-901-83 | DIODE 1SS83 |
| D714 | 8-719-911-19 | DIODE 1SS119 |

<JACK>

| | | |
|---|---|---|
| J701 ⚠ | 1-540-071-13 | SOCKET, PICTURE TUBE |

<COIL>

| | | | |
|---|---|---|---|
| L701 | 1-410-671-31 | INDUCTOR | 47UH |

<TRANSISTOR>

| | | |
|---|---|---|
| Q701 | 8-729-326-11 | TRANSISTOR 2SC2611 |
| Q702 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q703 | 8-729-200-17 | TRANSISTOR 2SA1091-O |
| Q704 | 8-729-326-11 | TRANSISTOR 2SC2611 |
| Q705 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q706 | 8-729-200-17 | TRANSISTOR 2SA1091-O |
| Q707 | 8-729-200-17 | TRANSISTOR 2SA1091-O |
| Q708 | 8-729-326-11 | TRANSISTOR 2SC2611 |
| Q709 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q710 | 8-729-255-12 | TRANSISTOR 2SC2551-O |
| Q711 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |
| Q712 | 8-729-255-12 | TRANSISTOR 2SC2551-O |
| Q714 | 8-729-200-17 | TRANSISTOR 2SA1091-O |
| Q715 | 8-729-200-17 | TRANSISTOR 2SA1091-O |
| Q716 | 8-729-200-17 | TRANSISTOR 2SA1091-O |

<RESISTOR>

| | | | | | | |
|---|---|---|---|---|---|---|
| R701 | 1-216-398-11 | METAL OXIDE | 5.6 | 5% | 3W | F |
| R702 | 1-202-883-11 | SOLID | 680K | 20% | 1/2W | |
| R703 | 1-202-838-00 | SOLID | 100K | 20% | 1/2W | |
| R706 | 1-202-838-00 | SOLID | 100K | 20% | 1/2W | |
| R707 | 1-202-842-11 | SOLID | 220K | 20% | 1/2W | |
| R708 | 1-202-818-00 | SOLID | 1K | 20% | 1/2W | |
| R709 | 1-202-818-00 | SOLID | 1K | 20% | 1/2W | |
| R710 | 1-202-818-00 | SOLID | 1K | 20% | 1/2W | |
| R713 | 1-216-486-00 | METAL OXIDE | 8.2K | 5% | 3W | F |
| R715 | 1-202-549-00 | SOLID | 100 | 10% | 1/2W | |
| R716 | 1-216-486-00 | METAL OXIDE | 8.2K | 5% | 3W | F |
| R720 | 1-216-486-00 | METAL OXIDE | 8.2K | 5% | 3W | F |
| R723 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |

C D

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R724 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R725 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R726 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W | |
| R727 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R728 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W | |
| R729 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R730 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W | |
| R731 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F |
| R732 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F |
| R733 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F |
| R735 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R737 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R739 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R740 | 1-215-902-11 | METAL OXIDE | 47K | 5% | 2W | F |
| R741 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R742 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | F |
| R743 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | F |
| R744 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | F |
| R745 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R746 | 1-215-902-11 | METAL OXIDE | 47K | 5% | 1W | F |
| R747 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | F |
| R748 | 1-216-398-11 | METAL OXIDE | 5.6 | 5% | 3W | F |
| R749 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R750 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F |
| R751 | 1-249-395-11 | CARBON | 15 | 5% | 1/4W | |
| R752 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | |
| R753 | 1-249-392-11 | CARBON | 8.2 | 5% | 1/4W | |
| R754 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R777 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |

<VARIABLE RESISTOR>

| | | | |
|---|---|---|---|
| RV701 | 1-230-641-11 | RES, ADJ, METAL GLAZE 2.2M | |
| RV702 | 1-241-656-11 | RES, ADJ, METAL FILM 110M | |

**********

*A-1341-665-A D BOARD, COMPLETE
**********

4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C801 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C802 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C804 | 1-130-483-00 | MYLAR | 0.01MF | 5% | 50V |
| C805 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C806 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C807 | 1-124-360-00 | ELECT | 1000MF | 20% | 16V |
| C809 | 1-136-104-00 | FILM | 0.16MF | 5% | 200V |
| C810 | 1-136-177-00 | FILM | 1MF | 5% | 50V |
| C811 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C812 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C813 | 1-130-491-00 | MYLAR | 0.047MF | 5% | 50V |
| C814 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C815 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C816 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| C817 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V |
| C818 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C819 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C820 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C913 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C914 | 1-106-379-12 | MYLAR | 0.033MF | 10% | 100V |
| C915 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C916 | 1-130-471-00 | MYLAR | 0.001MF | 5% | 50V |
| C917 | 1-130-479-00 | MYLAR | 0.0047MF | 5% | 50V |
| C918 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C920 | 1-136-946-11 | FILM | 0.12MF | 5% | 200V |
| C921 | 1-136-177-00 | FILM | 1MF | 5% | 50V |
| C929 | 1-130-471-00 | MYLAR | 0.001MF | 5% | 50V |
| C930 | 1-130-483-00 | MYLAR | 0.01MF | 5% | 50V |

<DIODE>

| | | |
|---|---|---|
| D801 | 8-719-913-44 | DIODE ERA82-004 |
| D802 | 8-719-911-19 | DIODE 1SS119 |
| D803 | 8-719-911-19 | DIODE 1SS119 |
| D804 | 8-719-911-19 | DIODE 1SS119 |
| D805 | 8-719-801-35 | THYRISTOR SHOR3D42 |
| D806 | 8-719-980-78 | DIODE ERA83-006 |
| D807 | 8-719-980-78 | DIODE ERA83-006 |
| D808 | 8-719-911-19 | DIODE 1SS119 |
| D809 | 8-719-911-19 | DIODE 1SS119 |
| D810 | 8-719-911-19 | DIODE 1SS119 |
| D811 | 8-719-936-84 | DIODE RGP10GPKG3 |
| D812 | 8-719-911-19 | DIODE 1SS119 |
| D814 | 8-719-121-24 | DIODE RD9.1ES-B2 |
| D815 | 8-719-911-19 | DIODE 1SS119 |
| D816 | 8-719-911-19 | DIODE 1SS119 |
| D903 | 8-719-979-85 | DIODE EGP20G |

<CONNECTOR>

| | | |
|---|---|---|
| D-14 | 1-573-299-11 | CONNECTOR, BOARD TO BOARD 10P |
| D-18 | 1-573-299-11 | CONNECTOR, BOARD TO BOARD 10P |
| D-20 | 1-564-524-11 | PLUG, CONNECTOR 9P |
| DY-2 | *1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P |

<IC>

| | | |
|---|---|---|
| IC801 | 8-749-920-58 | IC SI-3090CA |
| IC802 | 8-752-052-88 | IC CXA1526P |
| IC803 | 8-759-135-80 | IC UPC358C |
| IC903 | 8-759-987-16 | IC LM393P |

<COIL>

| | | |
|---|---|---|
| L801 | 1-459-592-11 | COIL (WITH CORE) (PMC) |
| L802 | 1-459-941-12 | COIL, CHOKE 3.4MMH |
| L901 | 1-410-093-11 | INDUCTOR 33MMH |
| L903 | 1-459-941-12 | COIL, CHOKE 3.4MMH |
| L904 | 1-459-148-00 | COIL |
| L905 | 1-459-592-11 | COIL (WITH CORE) (PMC) |

<TRANSISTOR>

| | | |
|---|---|---|
| Q802 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |
| Q803 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q804 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q805 | 8-729-140-97 | TRANSISTOR 2SB734-34 |
| Q806 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q807 | 8-729-140-97 | TRANSISTOR 2SB734-34 |
| Q808 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |
| Q809 | 8-729-209-15 | TRANSISTOR 2SD2012 |
| Q810 | 8-729-140-96 | TRANSISTOR 2SD774-34 |
| Q811 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q910 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q911 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |

**D V**

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| Q912 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q913 | 8-729-011-02 | TRANSISTOR 2SK1917 | | | | |
| | | <RESISTOR> | | | | |
| R801 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R802 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R804 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W | |
| R806 | 1-247-885-00 | CARBON | 180K | 5% | 1/4W | |
| R807 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W | |
| R808 | 1-215-461-00 | METAL | 47K | 1% | 1/4W | |
| R809 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R810 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R811 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R812 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W | |
| R813 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R815 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | |
| R816 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R817 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R818 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R819 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W | |
| R820 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R821 | 1-216-379-11 | METAL OXIDE | 6.8 | 5% | 2W | F |
| R822 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R824 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R825 | 1-215-857-11 | METAL OXIDE | 10 | 5% | 1W | F |
| R826 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W | |
| R827 | 1-215-875-11 | METAL OXIDE | 10K | 5% | 1W | F |
| R828 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R829 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R830 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R831 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | |
| R832 | 1-215-887-00 | METAL OXIDE | 150 | 5% | 2W | F |
| R833 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R834 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W | |
| R835 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | |
| R836 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R837 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R838 | 1-216-359-00 | METAL OXIDE | 6.8 | 5% | 1W | F |
| R839 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | |
| R840 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R841 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R842 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R843 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R927 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R928 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R929 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R930 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R931 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R932 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R933 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R934 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R935 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R936 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R937 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R938 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R939 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R940 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R941 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R942 | 1-215-892-11 | METAL OXIDE | 1K | 5% | 2W | F |

**********

*A-1342-223-A V BOARD, COMPLETE
**********

4-382-854-11 SCREW (M3X10), P, SW (+)

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | | <CAPACITOR> | | | | |
| C951 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V | |
| C952 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V | |
| C961 | 1-161-830-00 | CERAMIC | 0.0047MF | | 500V | |
| C962 | 1-101-880-00 | CERAMIC | 47PF | 5% | 50V | |
| C963 | 1-123-935-00 | ELECT | 33MF | 20% | 160V | |
| C964 | 1-126-101-11 | ELECT | 100MF | 20% | 16V | |
| C968 | 1-106-383-00 | MYLAR | 0.047MF | | 200V | |
| C969 | 1-124-799-11 | ELECT | 2.2MF | 20% | 160V | |
| C970 | 1-106-391-12 | MYLAR | 0.1MF | 10% | 200V | |
| C971 | 1-126-157-11 | ELECT | 10MF | 20% | 16V | |
| C972 | 1-126-541-11 | ELECT | 330MF | 20% | 16V | |
| C973 | 1-106-383-00 | MYLAR | 0.047MF | | 200V | |
| C975 | 1-126-101-11 | ELECT | 100MF | 20% | 16V | |
| C976 | 1-126-157-11 | ELECT | 10MF | 20% | 16V | |
| C977 | 1-102-963-00 | CERAMIC | 33PF | 5% | 50V | |
| C978 | 1-130-471-00 | MYLAR | 0.001MF | 5% | 50V | |
| C979 | 1-130-471-00 | MYLAR | 0.001MF | 5% | 50V | |
| C980 | 1-124-915-11 | ELECT | 10MF | 20% | 16V | |
| | | <DIODE> | | | | |
| D961 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D963 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D964 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D965 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D966 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D967 | 8-719-110-88 | DIODE RD39ES-B2 | | | | |
| D968 | 8-719-110-88 | DIODE RD39ES-B2 | | | | |
| | | <COIL> | | | | |
| L962 | 1-408-416-00 | INDUCTOR | 39UH | | | |
| | | <TRANSISTOR> | | | | |
| Q956 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q961 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q962 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q963 | 8-729-208-39 | TRANSISTOR 2SA1306A-Y | | | | |
| Q964 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q965 | 8-729-017-06 | TRANSISTOR 2SC4793 | | | | |
| Q966 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q967 | 8-729-142-86 | TRANSISTOR 2SC3733 | | | | |
| | | <RESISTOR> | | | | |
| R951 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R952 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R953 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R954 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R955 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R962 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R963 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R964 | 1-247-734-11 | CARBON | 39 | 5% | 1/2W | F |
| R965 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | F |
| R966 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R968 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R969 | 1-249-384-11 | CARBON | 1.8 | 5% | 1/4W | F |
| R970 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

**V | HS1 | HS2 | U**

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R972 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W | |
| R974 | 1-216-476-11 | METAL OXIDE | 180 | 5% | 3W | F |
| R975 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R976 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W | |
| R977 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W | |
| R978 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W | |
| R979 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R980 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W | |
| R981 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W | |
| R982 | 1-249-384-11 | CARBON | 1.8 | 5% | 1/4W | F |
| R983 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R984 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R985 | 1-249-400-11 | CARBON | 39 | 5% | 1/4W | F |
| R986 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R987 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W | |
| R988 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R989 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R990 | 1-216-451-11 | METAL OXIDE | 120 | 5% | 2W | F |
| R991 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| | | <CONNECTOR> | | | | |
| V-20 | *1-564-512-11 | PLUG, CONNECTOR 9P | | | | |
| | | ********** | | | | |
| | *1-643-150-11 | HS1 BOARD | | | | |
| | | ********* | | | | |
| | | <CAPACITOR> | | | | |
| C1603 | 1-124-589-11 | ELECT | 47MF | 20% | 16V | |
| C1604 | 1-124-589-11 | ELECT | 47MF | 20% | 16V | |
| | | <DIODE> | | | | |
| D1601 | 1-809-718-11 | LED UNIT | | | | |
| D1602 | 1-809-718-11 | LED UNIT | | | | |
| | | <CONNECTOR> | | | | |
| HS1-37 | *1-564-514-11 | PLUG, CONNECTOR 11P | | | | |
| | | <IC> | | | | |
| IC1601 | 8-746-185-11 | IC SBX1618-51 | | | | |
| | | <RESISTOR> | | | | |
| R1601 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1602 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | |
| R1604 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R1605 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R1606 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R1607 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W | |
| | | <SWITCH> | | | | |
| S1601 | 1-571-532-21 | SWITCH, TACTIL | | | | |
| S1602 | 1-571-532-21 | SWITCH, TACTIL | | | | |
| S1603 | 1-571-532-21 | SWITCH, TACTIL | | | | |
| S1604 | 1-571-532-21 | SWITCH, TACTIL | | | | |
| S1605 | 1-571-532-21 | SWITCH, TACTIL | | | | |
| S1606 | 1-571-532-21 | SWITCH, TACTIL | | | | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| S1607⚠ | 1-571-532-23 | SWITCH, TACTIL (POWER) | | | | |
| | | ********** | | | | |
| | *1-643-151-11 | HS2 BOARD | | | | |
| | | ********* | | | | |
| | | <DIODE> | | | | |
| D1650 | 8-719-108-12 | DIODE RD9.1EW | | | | |
| D1651 | 8-719-108-12 | DIODE RD9.1EW | | | | |
| D1652 | 8-719-108-12 | DIODE RD9.1EW | | | | |
| | | <CONNECTOR> | | | | |
| HS2-16 | *1-564-513-11 | PLUG, CONNECTOR 10P | | | | |
| HS2-49 | *1-564-506-11 | PLUG, CONNECTOR 3P | | | | |
| | | <JACK> | | | | |
| J1650 | 1-569-804-11 | JACK BLOCK, PIN (L TYPE) 3P (V3 IN) | | | | |
| | | ********** | | | | |
| | *A-1373-411-A | U BOARD, COMPLETE (KV-32XBR26(US/CND)) | | | | |
| | | ********** | | | | |
| | *A-1373-412-A | U BOARD, COMPLETE (KV-32XBR36(US/CND)) | | | | |
| | | ********** | | | | |
| | | <CAPACITOR> | | | | |
| C1004 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V | |
| C1005 | 1-126-301-11 | ELECT | 1MF | 20% | 50V | |
| C1006 | 1-164-096-11 | CERAMIC | 0.01MF | | 50V | |
| C1007 | 1-124-598-11 | ELECT | 22MF | 20% | 25V | |
| C1008 | 1-124-598-11 | ELECT | 22MF | 20% | 25V | |
| C1010 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V | |
| C1011 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V | |
| C1012 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V | |
| C1013 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V | |
| C1014 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V | |
| C1016 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V | |
| C1018 | 1-126-301-11 | ELECT | 1MF | 20% | 50V | |
| C1020 | 1-124-242-00 | ELECT | 33MF | 20% | 25V | |
| C1021 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V | |
| C1022 | 1-124-242-00 | ELECT | 33MF | 20% | 25V | |
| C1023 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V (KV-32XBR36(US/CND)) | |
| C1024 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V (KV-32XBR36(US/CND)) | |
| C1026 | 1-164-048-11 | CERAMIC | 12PF | 5% | 50V | |
| C1027 | 1-164-048-11 | CERAMIC | 12PF | 5% | 50V | |
| C1028 | 1-124-242-00 | ELECT | 33MF | 20% | 25V | |
| C1029 | 1-124-282-00 | ELECT | 22MF | 20% | 16V | |
| C1030 | 1-124-478-11 | ELECT | 100MF | 20% | 25V | |
| C1031 | 1-102-963-00 | CERAMIC | 33PF | 5% | 50V | |
| C1033 | 1-124-598-11 | ELECT | 22MF | 20% | 25V | |
| C1034 | 1-124-282-00 | ELECT | 22MF | 20% | 16V | |
| C1036 | 1-124-282-00 | ELECT | 22MF | 20% | 16V | |
| C1037 | 1-124-282-00 | ELECT | 22MF | 20% | 16V | |
| C1039 | 1-124-478-11 | ELECT | 100MF | 20% | 25V | |
| C1046 | 1-124-242-00 | ELECT | 33MF | 20% | 25V (KV-32XBR36(US/CND)) | |
| C1047 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V | |
| C1048 | 1-126-301-11 | ELECT | 1MF | 20% | 50V | |
| C1049 | 1-124-598-11 | ELECT | 22MF | 20% | 25V | |

# U

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C1050 | 1-124-242-00 | ELECT | 33MF | 20% | 25V | (KV-32XBR36(US/CND)) |
| C1051 | 1-124-465-00 | ELECT | 0.47MF | 20% | 50V | |
| C1054 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V | (KV-32XBR36(US/CND)) |
| C1055 | 1-124-589-11 | ELECT | 47MF | 20% | 16V | |
| C1056 | 1-124-499-11 | ELECT | 1MF | 20% | 50V | |
| C1057 | 1-124-768-11 | ELECT | 4.7MF | 20% | 50V | |
| C1058 | 1-126-163-11 | ELECT | 4.7MF | 20% | 50V | (KV-32XBR36(US/CND)) |
| C1059 | 1-124-499-11 | ELECT | 1MF | 20% | 50V | |
| C1060 | 1-124-499-11 | ELECT | 1MF | 20% | 50V | |
| C1061 | 1-124-499-11 | ELECT | 1MF | 20% | 50V | |
| C1062 | 1-102-129-00 | CERAMIC | 0.01MF | 10% | 50V | |
| C1063 | 1-124-768-11 | ELECT | 4.7MF | 20% | 50V | |
| C1066 | 1-126-101-11 | ELECT | 100MF | 20% | 16V | |
| C1070 | 1-126-103-11 | ELECT | 470MF | 20% | 16V | |
| C1110 | 1-124-768-11 | ELECT | 4.7MF | 20% | 50V | (KV-32XBR36(US/CND)) |
| C1111 | 1-124-768-11 | ELECT | 4.7MF | 20% | 50V | (KV-32XBR36(US/CND)) |

<FILTER BLOCK>

| | | | |
|---|---|---|---|
| CM1002 | 1-466-162-31 | BLOCK, COM FILTER (CFB-4) | |

<DIODE>

| | | | |
|---|---|---|---|
| D1005 | 8-719-110-36 | DIODE RD13ES-B2 | |
| D1009 | 8-719-110-36 | DIODE RD13ES-B2 | |
| D1010 | 8-719-110-36 | DIODE RD13ES-B2 | |
| D1011 | 8-719-110-36 | DIODE RD13ES-B2 | |
| D1012 | 8-719-110-36 | DIODE RD13ES-B2 | |
| D1013 | 8-719-110-36 | DIODE RD13ES-B2 | |
| D1014 | 8-719-110-36 | DIODE RD13ES-B2 | |
| D1017 | 8-719-110-36 | DIODE RD13ES-B2 | |
| D1018 | 8-719-110-36 | DIODE RD13ES-B2 | |
| D1019 | 8-719-110-36 | DIODE RD13ES-B2 | |
| D1020 | 8-719-109-66 | DIODE RD3.3ES-B2 | |
| D1021 | 8-719-109-66 | DIODE RD3.3ES-B2 | |
| D1022 | 8-719-109-66 | DIODE RD3.3ES-B2 | |
| D1023 | 8-719-109-66 | DIODE RD3.3ES-B2 | (KV-32XBR36(US/CND)) |
| D1025 | 8-719-911-19 | DIODE 1SS119 | |
| D1026 | 8-719-911-19 | DIODE 1SS119 | |
| D1027 | 8-719-911-19 | DIODE 1SS119 | |

<IC>

| | | | |
|---|---|---|---|
| IC1002 | 8-752-056-50 | IC CXA1545S | |
| IC1010 | 8-759-145-57 | IC UPC4557C | (KV-32XBR36(US/CND)) |
| IC1011 | 8-759-145-57 | IC UPC4557C | |

<COIL>

| | | | |
|---|---|---|---|
| L1001 | 1-408-422-00 | INDUCTOR | 120UH |
| L1002 | 1-408-422-00 | INDUCTOR | 120UH |

<TRANSISTOR>

| | | | |
|---|---|---|---|
| Q1009 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q1010 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q1012 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | (KV-32XBR36(US/CND)) |
| Q1013 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | (KV-32XBR36(US/CND)) |
| Q1016 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q1017 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q1018 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q1019 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q1020 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q1021 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q1022 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q1023 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q1025 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q1029 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q1030 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q1031 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q1032 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q1033 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q1034 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |

<RESISTOR>

| | | | | | | |
|---|---|---|---|---|---|---|
| R1011 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R1012 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R1013 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1014 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R1015 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R1016 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R1017 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1018 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | |
| R1019 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | |
| R1023 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1026 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R1028 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R1029 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R1030 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1032 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1033 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R1034 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1035 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1036 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W | |
| R1037 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W | |
| R1038 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W | |
| R1040 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1041 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1042 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1043 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1046 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R1048 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1050 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1051 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1052 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R1054 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1055 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R1056 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1057 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R1059 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1061 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R1062 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R1063 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R1066 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R1067 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R1068 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |

U UT

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R1069 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R1070 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R1071 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R1073 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R1077 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R1078 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R1079 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1080 | 1-215-423-00 | METAL | 1.2K | 1% | 1/4W | |
| R1081 | 1-215-421-00 | METAL | 1K | 1% | 1/4W | |
| R1089 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1092 | 1-247-688-11 | CARBON | 10 | 5% | 1/4W | F (KV-32XBR36(US/CND)) |
| R1094 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1096 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1099 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R1100 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R1101 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1102 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1103 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1106 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1108 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1109 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1110 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1112 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1114 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1115 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1116 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R1117 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1118 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R1119 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1120 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1121 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R1122 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | (KV-32XBR36(US/CND)) |
| R1133 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1134 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1137 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R1138 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | |
| R1139 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R1140 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R1141 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R1142 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | |
| R1147 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1148 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1149 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1150 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1151 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R1152 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |

<CONNECTOR>

| | | | |
|---|---|---|---|
| U-12 | 1-573-300-11 | CONNECTOR, BOARD TO BOARD 18P | |
| U-13 | 1-573-300-11 | CONNECTOR, BOARD TO BOARD 18P | |
| U-16 | *1-564-513-11 | PLUG, CONNECTOR 10P | |
| U-19 | *1-564-509-11 | PLUG, CONNECTOR 6P | |
| U-22 | 1-566-942-11 | CONNECTOR, HINGE(RECEPTACLE) 30P | |
| U-23 | *1-566-367-11 | CONNECTOR, HINGE (RECEPTACLE) | |
| U-47 | *1-564-506-11 | PLUG, CONNECTOR 3P | |
| U-48 | 1-508-784-00 | PIN, CONNECTOR (5MM PITCH) 1P | |
| U-50 | *1-564-505-11 | PLUG, CONNECTOR 2P | |

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*A-1373-414-A UT BOARD, COMPLETE
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<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C1152 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C1154 | 1-164-096-11 | CERAMIC | 0.01MF | | 50V |
| C1155 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C1158 | 1-124-598-11 | ELECT | 22MF | 20% | 25V |
| C1160 | 1-124-598-11 | ELECT | 22MF | 20% | 25V |
| C1161 | 1-124-598-11 | ELECT | 22MF | 20% | 25V |
| C1164 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C1165 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C1166 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C1167 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C1168 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |

<DIODE>

| | | |
|---|---|---|
| D1152 | 8-719-110-36 | DIODE RD13ES-B2 |
| D1158 | 8-719-110-36 | DIODE RD13ES-B2 |
| D1159 | 8-719-110-36 | DIODE RD13ES-B2 |
| D1160 | 8-719-110-36 | DIODE RD13ES-B2 |
| D1163 | 8-719-110-36 | DIODE RD13ES-B2 |
| D1164 | 8-719-110-36 | DIODE RD13ES-B2 |
| D1165 | 8-719-110-36 | DIODE RD13ES-B2 |
| D1166 | 8-719-110-36 | DIODE RD13ES-B2 |
| D1167 | 8-719-110-36 | DIODE RD13ES-B2 |
| D1168 | 8-719-110-36 | DIODE RD13ES-B2 |
| D1169 | 8-719-110-36 | DIODE RD13ES-B2 |
| D1170 | 8-719-110-36 | DIODE RD13ES-B2 |

<JACK>

| | | |
|---|---|---|
| J1003 | 1-573-970-11 | BLOCK, (S) TERMINAL (V1 IN) |
| J1004 | 1-695-049-11 | BLOCK, (S) TERMINAL (V2/V3 IN) |
| J1005 | 1-695-054-11 | JACK BLOCK, PIN (LOOP OUT) |
| J1006 | 1-573-970-11 | BLOCK, (S) TERMINAL (MONITOR OUT) |
| J1007 | 1-573-969-11 | JACK BLOCK, PIN (AUDIO OUT(FIXED)) |
| J1008 | 1-573-969-11 | JACK BLOCK, PIN (AUDIO OUT(VAR)) |

<RESISTOR>

| | | | | | |
|---|---|---|---|---|---|
| R1153 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W |
| R1155 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1164 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W |
| R1165 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W |
| R1166 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W |
| R1167 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W |
| R1168 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W |
| R1169 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W |
| R1170 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W |
| R1171 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W |
| R1172 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W |

# UT S

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R1173 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W | |
| R1174 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | |
| R1175 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | |
| R1176 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W | |
| R1178 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | |
| R1179 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | |
| R1180 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W | |
| R1181 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W | |
| R1183 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | |
| R1184 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | |
| R1185 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | |
| R1186 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | |
| R1188 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W | |
| R1191 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R1192 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R1193 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R1194 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R1196 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | |
| | | <SWITCH> | | | | |
| S1150 | 1-572-198-11 | SWITCH, KEYBOARD | | | | |
| | | <CONNECTOR> | | | | |
| UT-9 | *1-564-517-11 | PLUG, CONNECTOR 2P | | | | |
| UT-11 | *1-564-519-11 | PLUG, CONNECTOR 4P | | | | |
| UT-22 | *1-566-941-11 | CONNECTOR, HINGE (TAB) 30P | | | | |
| UT-23 | *1-566-641-11 | CONNECTOR, HINGE (TAB) 18P | | | | |
| UT-35 | *1-564-518-11 | PLUG, CONNECTOR 3P | | | | |
| UT-38 | *1-564-517-11 | PLUG, CONNECTOR 2P | | | | |

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*A-1394-421-A S BOARD, COMPLETE
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<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C3403 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C3408 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C3409 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C3411 | 1-124-034-51 | ELECT | 33MF | 20% | 16V |
| C3442 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C3446 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V |
| C3447 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C3448 | 1-163-023-00 | CERAMIC CHIP | 0.015MF | 10% | 50V |
| C3449 | 1-164-182-11 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C3450 | 1-163-109-00 | CERAMIC CHIP | 47PF | 5% | 50V |
| C3451 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3452 | 1-163-989-11 | CERAMIC CHIP | 0.033MF | 10% | 25V |
| C3453 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C3454 | 1-126-162-11 | ELECT | 3.3MF | 20% | 50V |
| C3455 | 1-126-163-11 | ELECT | 4.7MF | 20% | 16V |
| C3456 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V |
| C3457 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C3459 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C3460 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% | 50V |
| C3461 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% | 50V |
| C3507 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C3508 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C3509 | 1-163-139-00 | CERAMIC CHIP | 820PF | 5% | 50V |
| C3515 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C3540 | 1-126-157-11 | ELECT | 10MF | 20% | 16V |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | <DIODE> | |
| D3444 | 8-719-404-46 | DIODE MA110 | |
| | | <IC> | |
| IC3401 | 8-759-403-44 | IC MN1280-S | |
| IC3402 | 8-759-070-42 | IC M37201M6-A18FP | |
| IC3441 | 8-759-081-30 | IC MC78L05ACPRP | |
| IC3442 | 8-759-084-12 | IC LA7945 | |
| IC3443 | 8-759-158-03 | IC LC7458A-02 | |
| IC3444 | 8-759-403-44 | IC MN1280-S | |
| | | <COIL> | |
| L3401 | 1-408-421-00 | INDUCTOR 100UH | |
| L3461 | 1-408-409-00 | INDUCTOR 10UH | |
| L3462 | 1-408-421-00 | INDUCTOR 100UH | |
| | | <TRANSISTOR> | |
| Q3441 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q3444 | 8-729-903-10 | TRANSISTOR FMW1 | |
| | | <RESISTOR> | |

| | | | | | |
|---|---|---|---|---|---|
| R3401 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3402 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3403 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3404 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R3405 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R3406 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3407 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R3408 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3409 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R3441 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R3442 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3443 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3444 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R3445 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W |
| R3446 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W |
| R3449 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3450 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R3451 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W |
| R3452 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W |
| R3453 | 1-216-679-11 | METAL CHIP | 15K | 0.50% | 1/10W |
| R3454 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3455 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R3456 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R3463 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3464 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3465 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3472 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W |
| R3473 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R3474 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| R3504 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R3509 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3511 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R3512 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R3513 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R3514 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R3519 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3520 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R3521 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3525 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R3526 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3528 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R3529 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R3530 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3531 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3532 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3535 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R3537 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R3540 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| | | <CONNECTOR> | | | | |
| S-42 | *1-568-378-21 | PIN, CONNECTOR 3P | | | | |
| S-42 | *1-565-514-11 | SOCKET, CONNECTOR 2P | | | | |
| S-43 | *1-564-508-11 | PLUG, CONNECTOR 5P | | | | |
| S-45 | *1-564-511-71 | PLUG, CONNECTOR 8P | | | | |
| S-46 | *1-564-506-11 | PLUG, CONNECTOR 3P | | | | |
| S-47 | *1-564-506-11 | PLUG, CONNECTOR 3P | | | | |
| | | <CRYSTAL> | | | | |
| X3401 | 1-577-358-21 | VIBRATOR, CERAMIC 4MHZ | | | | |
| X3441 | 1-577-364-11 | VIBRATOR, CERAMIC 12MHZ | | | | |
| | | ********** | | | | |
| | | MISCELLANEOUS | | | | |
| | | ********** | | | | |
| | ⚠1-402-952-11 | COIL, DEMAGNETIZATION | | | | |
| | ⚠1-417-178-11 | SELECTOR, ANTENNA (AS-2) (KV-32XBR36(US/CND)) | | | | |
| | ⚠1-451-315-11 | DEFLECTION YOKE (Y34FXA) | | | | |
| | 1-452-032-00 | MAGNET, DISK; 10MMφ | | | | |
| | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MMφ | | | | |
| | ⚠1-452-579-11 | NECK ASSY, PICTURE TUBE (NA322) | | | | |
| | 1-544-544-21 | SPEAKER (10CM) | | | | |
| | 1-544-580-11 | SPEAKER (2.5CM) | | | | |
| | *1-555-400-00 | CABLE, PIN | | | | |
| | *1-557-056-31 | CABLE, P-P (KV-32XBR36(US/CND)) | | | | |
| | 1-561-306-00 | JACK, PIN (F) (KV-32XBR26(US/CND)) | | | | |
| | ⚠1-696-002-12 | CORD, POWER(WITH NOISE FILTER) | | | | |
| | A-4546-027-A | TRANSMITTER TMR-D1002 (KV-32XBR36(US/CND)) | | | | |
| | A-4546-028-A | LUMINOUS UNIT IFP-D1002 (KV-32XBR36(US/CND)) | | | | |
| V901 | ⚠8-733-723-05 | PICTURE TUBE (A80JYY50X) | | | | |
| | | ********** | | | | |
| | | ACCESSORIES AND PACKING MATERIALS | | | | |
| | | ********** | | | | |
| | 3-757-071-21 | MANUAL, INSTRUCTION (ENGLISH) | | | | |
| | 3-757-071-31 | MANUAL, INSTRUCTION (FRENCH) (KV-32XBR26(CND)/32XBR36(CND) | | | | |
| | 3-757-071-41 | MANUAL, INSTRUCTION (SPANISH) (KV-32XBR26(US)/32XBR36(US) | | | | |
| | *4-035-985-01 | CUSHION (UPPER) (ASSY) | | | | |
| | *4-035-986-01 | CUSHION (LOWER) (ASSY) | | | | |
| | *4-035-991-01 | INDIVIDUAL CARTON | | | | |
| | *4-384-027-01 | BAG, PROTECTION | | | | |
| | A-4503-953-A | HEADPHONE TDR-IF310 (KV-32XBR36(US/CND)) | | | | |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | REMOTE COMMANDER | |
| | 1-693-113-21 | REMOTE COMMANDER (RM-Y113A) (KV-32XBR36(US/CND)) | |
| | 1-693-114-21 | REMOTE COMMANDER (RM-Y112A) (KV-32XBR26(US/CND)) | |
| | 9-902-719-01 | COVER (FOR RM-Y112A,Y113A) | |
| | 9-998-214-01 | COVER BATTERY (FOR RM-Y112A,Y113A) | |

MEMO

# ACCESSORY

# TDR-IF310

## SPECIFICATIONS

| | |
|---|---|
| **General** | |
| Modulation system | Frequency modulation |
| Carrier frequency | Right 2.8 MHz<br>Left 2.3 MHz |
| Effective range | Up to approx. 7 m (23 ft.) |
| Frequency response | 18 – 22,000 Hz |
| Distortion | Less than 1% at 1 kHz |
| **Headphones MDR-IF310** | |
| Power source | DC 3 V, 2 × R6 (size AA) battery |
| Weight | Approx. 170 g (6.0 oz.) incl. batteries |

Design and specifications subject to change without notice.

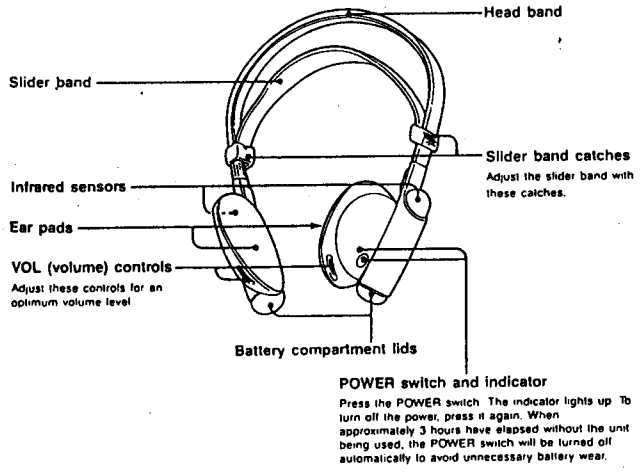
# CORDLESS STEREO HEADPHONES

# SECTION 1
# GENERAL

This section is extracted from instruction manual.

## Parts Identification

Headphones


Head band
Slider band
Slider band catches
Adjust the slider band with these catches.
Infrared sensors
Ear pads
VOL (volume) controls
Adjust these controls for an optimum volume level
Battery compartment lids
POWER switch and indicator
Press the POWER switch. The indicator lights up. To turn off the power, press it again. When approximately 3 hours have elapsed without the unit being used, the POWER switch will be turned off automatically to avoid unnecessary battery wear.

## Power Source of the Headphones

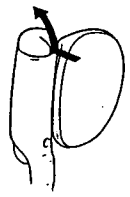
Use two R6 (size AA) batteries for the headphones. Be sure to use the same type of batteries for both right and left battery compartments.

**When the batteries become weak**
The POWER indicator dims, and a hissing noise increases. In such a case, replace both batteries.
The approximate battery life for continuous operation is as follows:

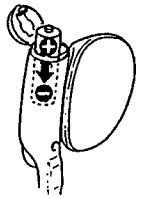
| | |
|---|---|
| Sony alkaline battery AM3(N) | 120 hours |
| Sony battery SUM-3(NS) | 60 hours |

### Battery Installation

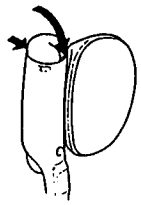
**1** Open both battery compartments' lids.



**2** Insert the batteries with the correct polarity.



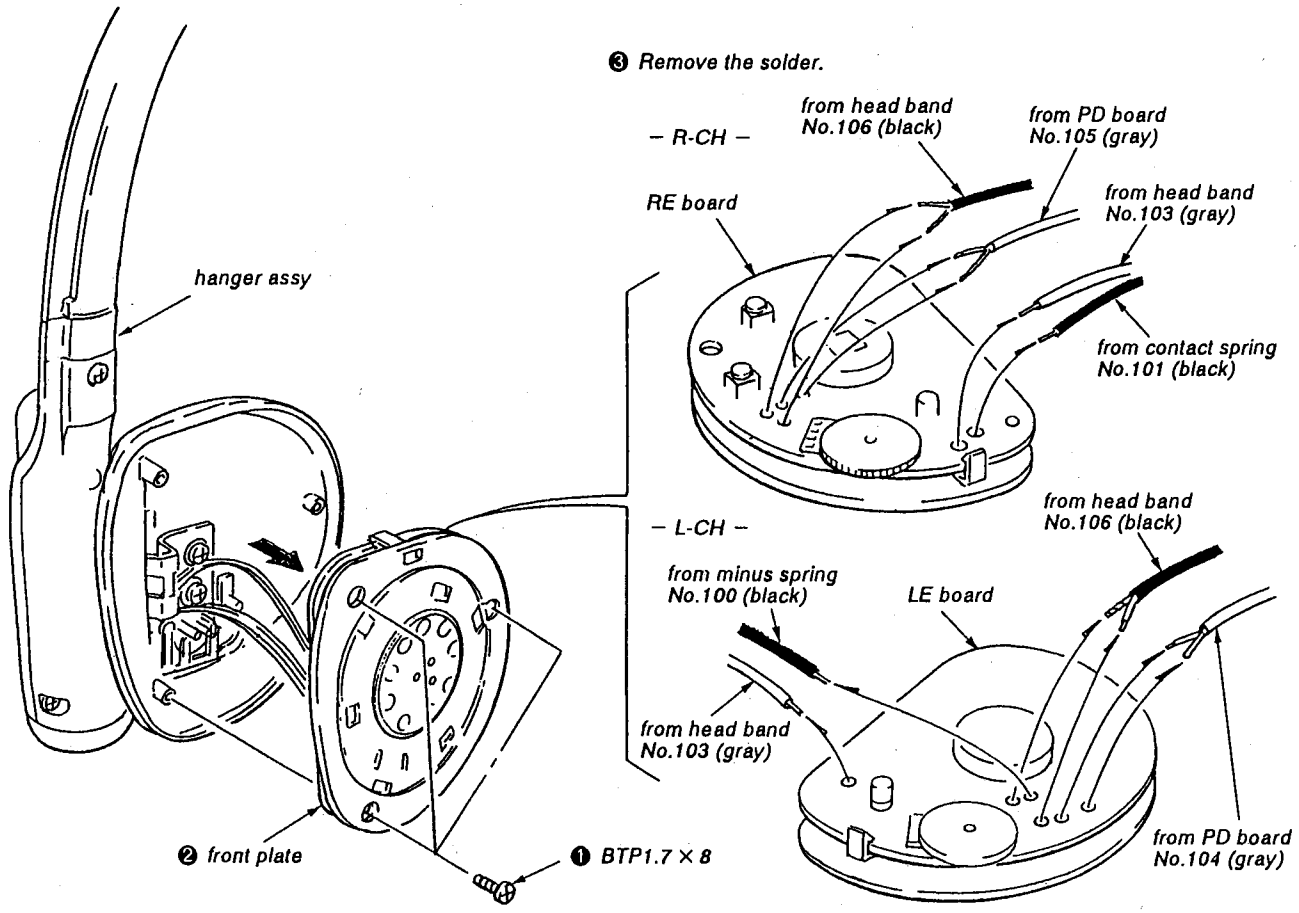
**3** Close the battery compartments' lids.



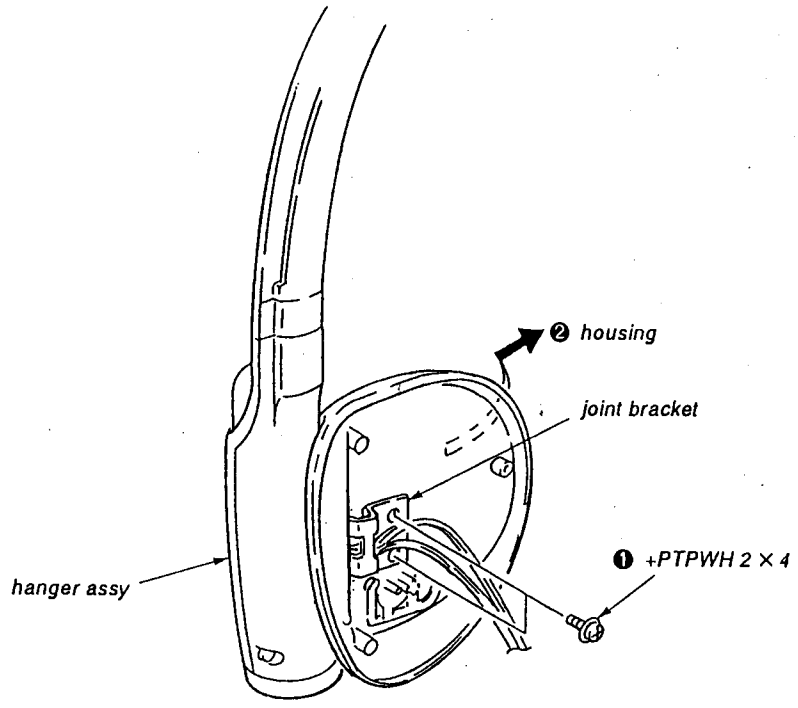
# SECTION 2
# DISASSEMBLY

**Note:** Follow the disassembly procedure in the numerical order given.

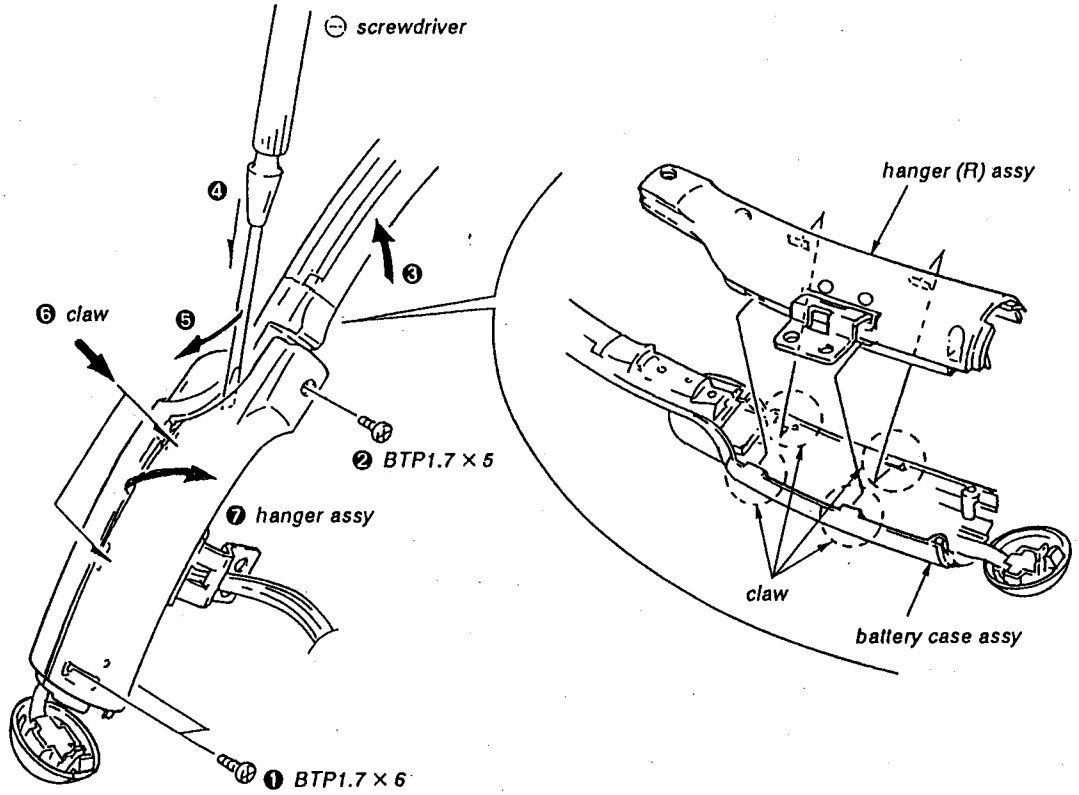
## FRONT PLATE



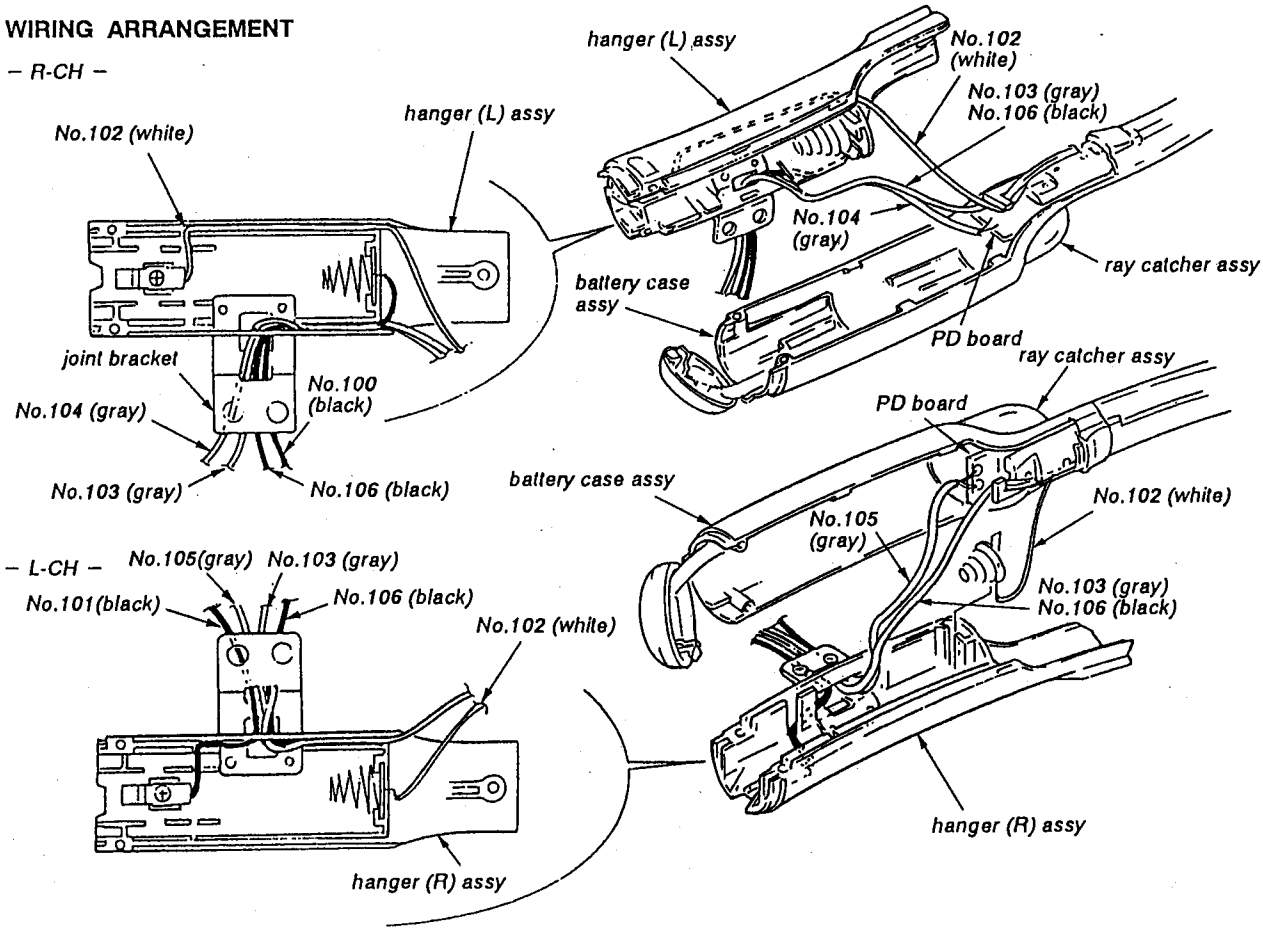

## HOUSING



## HANGER




## WIRING ARRANGEMENT



KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

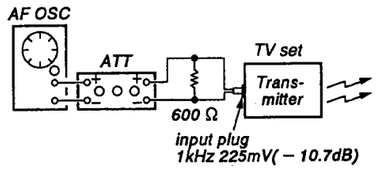
# SECTION 3
# ADJUSTMENTS

**Note:**
1. On adjusting, use the transmitter TV set.
2. L-ch adjustment should be completed before performing R-ch adjustment.

**0 dB = 0.775 V**

### [Receiving Frequency Adjustment]

**Preparation:**




1. Feed a signal to TV set and connect a power supply.
2. Volume control: Optional position.
3. Short-circuit: Q3 (Q53) Base – Emitter (Ground)

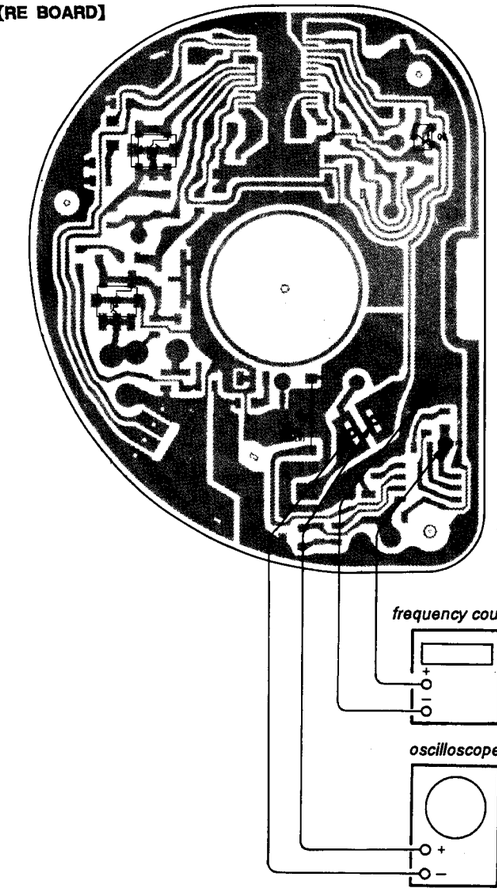
**Procedure:**
1. Connect a oscilloscope to SP1 or SP51.
2. Turn on the power switch on the headphones.
3. Adjust to make minute input level with changing the direction of the emitting position of jig so that the noise appears on the waveform.
4. Adjust with L5 (L-ch) or L55 (R-ch) to maximize the reading on the oscilloscope.
5. Adjust with L1 (L-ch) or L51 (R-ch) to maximize the reading on the oscilloscope.
6. Release the short-circuit position.
   Q3 (Q53) Base – Emitter (Ground)

### [Timer Clock Frequency Check]

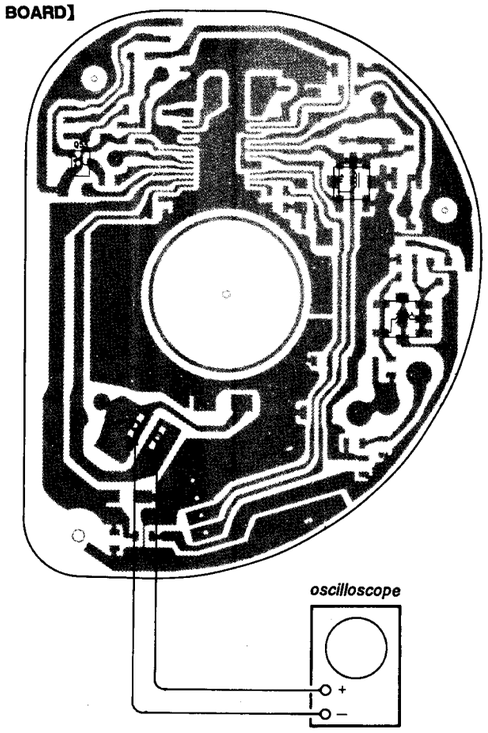
1. Connect a frequency counter to TP2 and TP (GND).
2. Check the reading on the frequency counter becomes to the checking value.
   Checking value: 300 Hz – 390 Hz.

### [Connection and Adjustment Location]

**[RE BOARD]**




**[LE BOARD]**

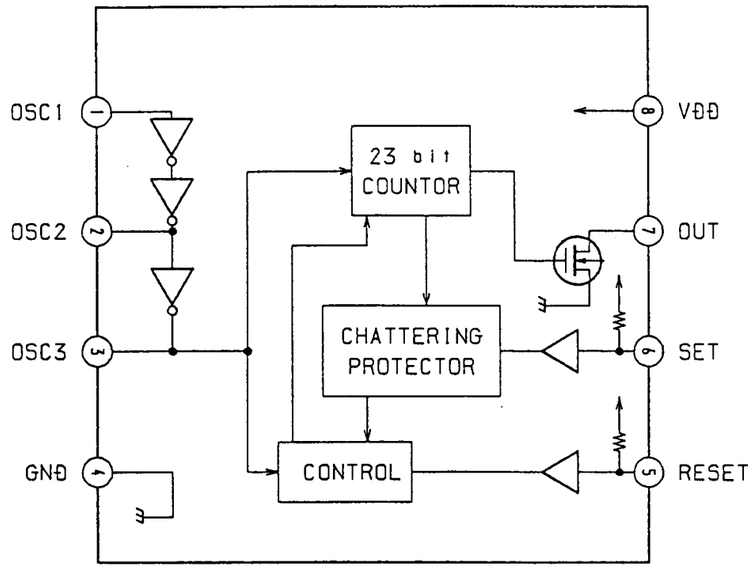




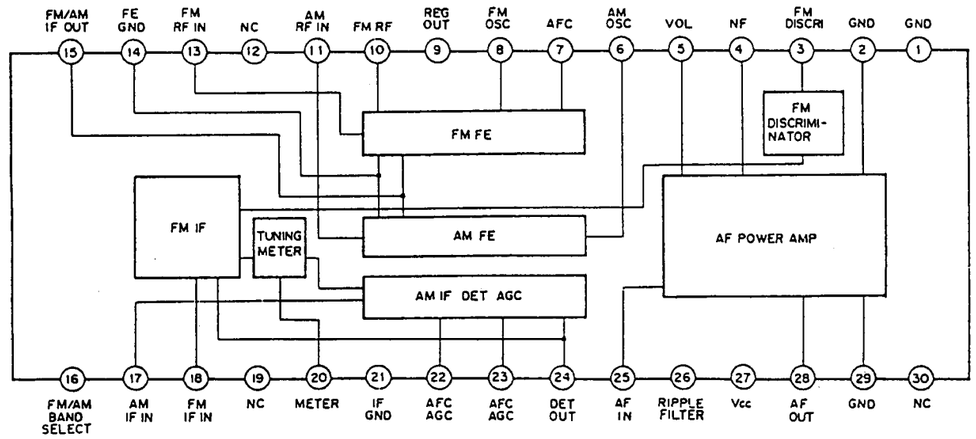

# SECTION 4
# DIAGRAMS

- **IC Block Diagrams**

**IC2 BU2305F**




**IC21, 51 CXA1280N**



KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

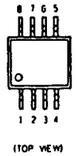
## 4-1. PRINTED WIRING BOARDS

- **Semiconductor Location**

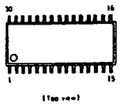
| Ref. No. | Location |
|---|---|
| D1 | G-3 |
| D2 | E-2 |
| D52 | D-12 |
| IC1 | C-4 |
| IC2 | H-5 |
| IC51 | D-10 |
| PH101 | A-5, A-8 |
| PH102 | A-6, A-9 |
| Q2 | H-4 |
| Q3 | D-5 |
| Q4 | D-4 |
| Q5 | D-5 |
| Q51 | E-13 |
| Q53 | D-9 |
| Q54 | C-9 |
| Q55 | D-9 |

- **Semiconductor Lead Layout**

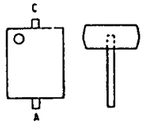
**BU2305F**



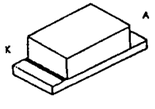

**CXA1280N**

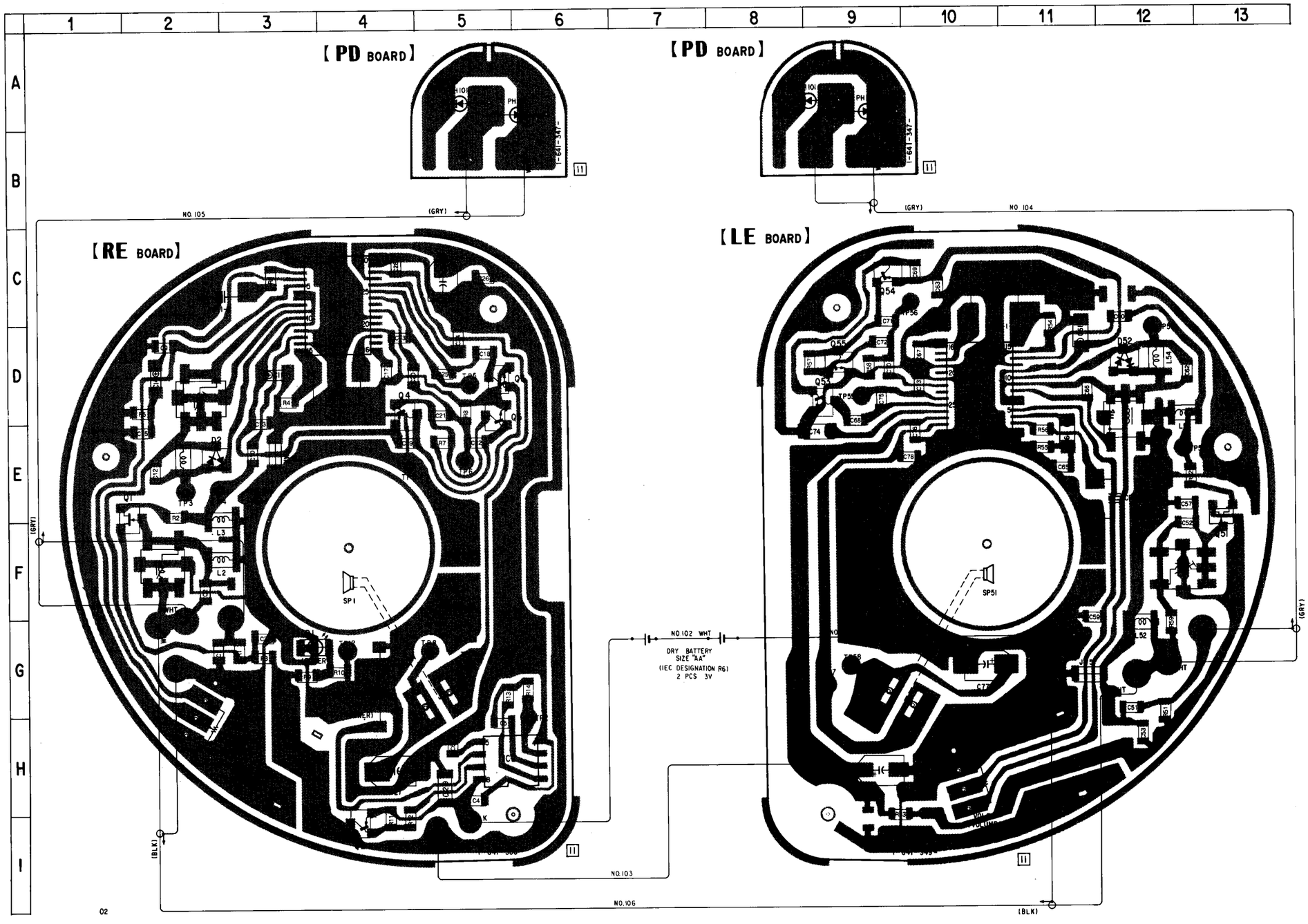



**PP601-1**




**CL-150R-CD**

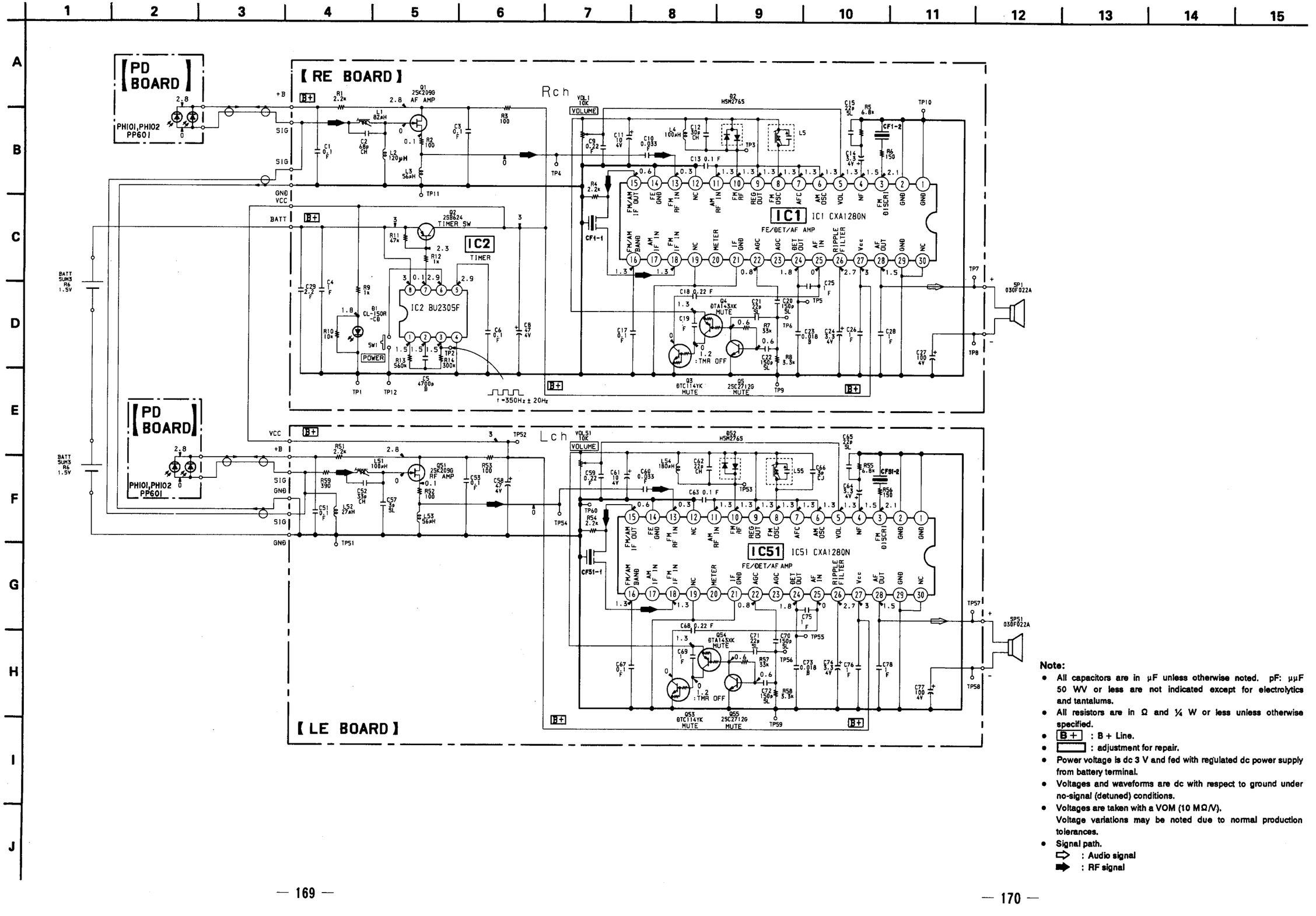



Note:
- ○——— : parts extracted from the component side.
- ● : Through hole.
- ▒▒▒ : Pattern on the side which is seen.

KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

## 4-2. SCHEMATIC DIAGRAM • See page 172 for IC Block Diagrams.




**Note:**

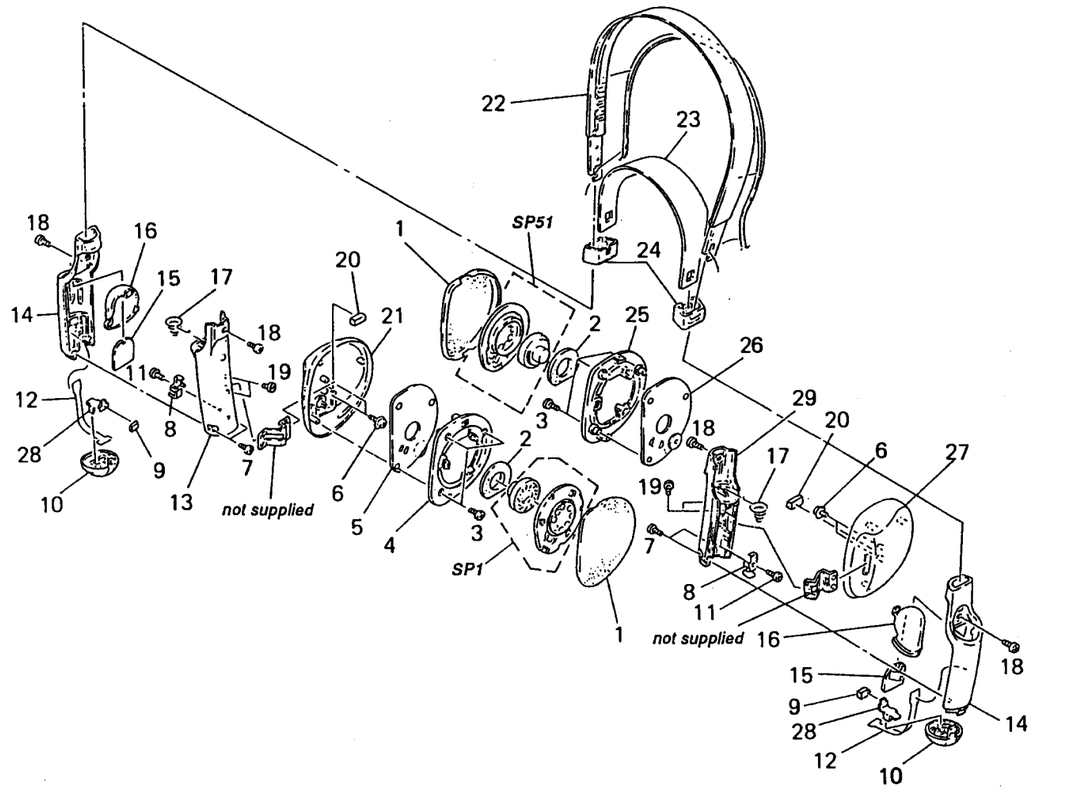
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- B+ : B + Line.
- ▭ : adjustment for repair.
- Power voltage is dc 3 V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  - ⇨ : Audio signal
  - ➡ : RF signal

KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

# SECTION 5
# EXPLODED VIEW

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.




| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | 4-947-791-01 | PAD, EAR | |
| * 2 | 4-948-895-01 | DAMPER | |
| 3 | 3-318-203-31 | SCREW (B1.7X8), TAPPING | |
| * 4 | 4-947-813-01 | PLATE (R), FRONT | |
| * 5 | A-4542-062-A | RE BOARD, COMPLETE | |
| 6 | 3-313-392-01 | SCREW (2X4), + PTPWH | |
| 7 | 3-318-203-11 | SCREW (B1.7X6), TAPPING | |
| 8 | 4-947-795-01 | SPRING, CONTACT | |
| 9 | 9-911-838-XX | CUSHION | |
| 10 | 4-947-800-01 | LID, BATTERY CASE | |
| 11 | 7-627-552-07 | SCREW (M1.7X2.5), TAPPING | |
| 12 | 4-947-789-01 | SHEET | |
| 13 | 4-947-810-01 | HANGER (R) | |
| 14 | 4-947-808-01 | CASE, BATTERY | |
| * 15 | 1-641-347-11 | PC BOARD, PD | |
| 16 | 4-947-790-01 | COVER, RAY CATCHER | |
| 17 | 4-947-794-01 | SPRING, MINUS | |
| 18 | 3-318-203-11 | SCREW (B1.7X6), TAPPING | |
| 19 | 7-627-852-28 | SCREW +P 1.7X3 | |
| 20 | 4-947-796-01 | CUSHION | |
| 21 | X-4941-959-1 | HOUSING (R) ASSY | |
| * 22 | 4-947-809-01 | BAND, HEAD | |
| * 23 | 4-947-798-01 | BAND, SLIDER | |
| 24 | 4-947-801-01 | KNOB, SLIDER | |
| * 25 | 4-947-812-01 | PLATE (L), FRONT | |
| * 26 | A-4542-061-A | LE BOARD, COMPLETE | |
| 27 | 4-947-804-01 | HOUSING (L) | |
| 28 | 4-947-793-01 | TERMINAL, PLUS | |
| 29 | 4-947-811-01 | HANGER (L) | |
| SP1 | 1-505-117-11 | DRIVER UNIT (03F022A) | |
| SP51 | 1-505-117-11 | DRIVER UNIT (03F022A) | |



PD LE RE

# SECTION 6
# ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When including parts by reference number, please include the board name.

| REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|---|---|---|
| | *1-641-347-11 | PD BOARD ******** | | |
| | | <DIODE> | | |
| PH101 | 8-719-975-20 | PHOTO DIODE PP601-1 | | |
| PH102 | 8-719-975-20 | PHOTO DIODE PP601-1 | | |
| | | ********** | | |
| | *A-4542-061-A | LE BOARD, COMPLETE ********** | | |
| | 1-578-717-71 | FILTER, CRYSTAL | | |
| | | <CAPACITOR> | | |
| C51 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C52 | 1-163-239-11 | CERAMIC CHIP 33PF | 5% | 50V |
| C53 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C57 | 1-163-086-00 | CERAMIC CHIP 3PF | 0.25PF | 50V |
| C58 | 1-126-607-11 | ELECT CHIP 47MF | 20% | 4V |
| C59 | 1-164-222-11 | CERAMIC CHIP 0.22MF | | 25V |
| C60 | 1-163-034-00 | CERAMIC CHIP 0.033MF | | 50V |
| C61 | 1-135-201-11 | TANTAL. CHIP 10MF | 20% | 4V |
| C62 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% | 50V |
| C63 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C64 | 1-135-180-21 | TANTAL. CHIP 3.3MF | 20% | 4V |
| C65 | 1-163-101-00 | CERAMIC CHIP 22PF | 5% | 50V |
| C66 | 1-163-220-11 | CERAMIC CHIP 3PF | 0.25PF | 50V |
| C67 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C68 | 1-164-222-11 | CERAMIC CHIP 0.22MF | | 25V |
| C69 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C70 | 1-163-121-00 | CERAMIC CHIP 150PF | 5% | 50V |
| C71 | 1-163-101-00 | CERAMIC CHIP 22PF | 5% | 50V |
| C72 | 1-163-121-00 | CERAMIC CHIP 150PF | 5% | 50V |
| C73 | 1-163-024-00 | CERAMIC CHIP 0.018MF | 10% | 50V |
| C74 | 1-135-180-21 | TANTAL. CHIP 3.3MF | 20% | 4V |
| C75 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C76 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C77 | 1-126-209-11 | ELECT CHIP 100MF | 20% | 4V |
| C78 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| | | <DIODE> | | |
| D52 | 8-719-946-33 | DIODE HSM276S | | |
| | | <IC> | | |
| IC51 | 8-759-605-59 | IC CXA1280N | | |
| | | <COIL> | | |
| L51 | 1-424-333-11 | COIL | | |
| L52 | 1-410-386-11 | INDUCTOR CHIP 27UH | | |
| L53 | 1-410-390-11 | INDUCTOR CHIP 56UH | | |
| L54 | 1-410-657-21 | INDUCTOR CHIP 180UH | | |
| L55 | 1-406-436-11 | COIL (OSC) | | |
| | | <TRANSISTOR> | | |
| Q51 | 8-729-220-93 | TRANSISTOR 2SK209-G | | |
| Q53 | 8-729-900-52 | TRANSISTOR DTC114YK | | |
| Q54 | 8-729-906-45 | TRANSISTOR DTA143XK | | |
| Q55 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | | |
| | | <RESISTOR> | | |
| JW51 | 1-216-296-00 | METAL GLAZE 0 | 5% | 1/8W |
| R51 | 1-216-057-00 | METAL GLAZE 2.2K | 5% | 1/10W |
| R52 | 1-216-025-00 | METAL GLAZE 100 | 5% | 1/10W |
| R53 | 1-216-025-00 | METAL GLAZE 100 | 5% | 1/10W |
| R54 | 1-216-057-00 | METAL GLAZE 2.2K | 5% | 1/10W |
| R55 | 1-216-069-00 | METAL GLAZE 6.8K | 5% | 1/10W |
| R56 | 1-216-029-00 | METAL GLAZE 150 | 5% | 1/10W |
| R57 | 1-216-085-00 | METAL GLAZE 33K | 5% | 1/10W |
| R58 | 1-216-061-00 | METAL GLAZE 3.3K | 5% | 1/10W |
| R59 | 1-216-039-00 | METAL GLAZE 390 | 5% | 1/10W |
| | | <VARIABLE RESISTOR> | | |
| VOL51 | 1-238-906-11 | RES, VAR, CARBON 10K | | |
| | | ********** | | |
| | *A-4542-062-A | RE BOARD, COMPLETE ********** | | |
| | 1-578-717-71 | FILTER, CRYSTAL | | |
| | | <CAPACITOR> | | |
| C1 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C2 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% | 50V |
| C3 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C4 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C5 | 1-163-017-00 | CERAMIC CHIP 0.0047MF | 10% | 50V |
| C6 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C8 | 1-126-607-11 | ELECT CHIP 47MF | 20% | 4V |
| C9 | 1-164-222-11 | CERAMIC CHIP 0.22MF | | 25V |
| C10 | 1-163-989-11 | CERAMIC CHIP 0.033MF | 10% | 25V |
| C11 | 1-135-201-11 | TANTAL. CHIP 10MF | 20% | 4V |
| C12 | 1-163-104-00 | CERAMIC CHIP 30PF | 5% | 50V |
| C13 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C14 | 1-135-180-21 | TANTAL. CHIP 3.3MF | 20% | 4V |
| C15 | 1-163-101-00 | CERAMIC CHIP 22PF | 5% | 50V |

RE

| REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|---|---|---|
| C17 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C18 | 1-164-222-11 | CERAMIC CHIP 0.22MF | | 25V |
| C19 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C20 | 1-163-121-00 | CERAMIC CHIP 150PF | 5% | 50V |
| C21 | 1-163-101-00 | CERAMIC CHIP 22PF | 5% | 50V |
| C22 | 1-163-121-00 | CERAMIC CHIP 150PF | 5% | 50V |
| C23 | 1-163-024-00 | CERAMIC CHIP 0.018MF | 10% | 50V |
| C24 | 1-135-180-21 | TANTAL. CHIP 3.3MF | 20% | 4V |
| C25 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C26 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C27 | 1-126-209-11 | ELECT CHIP 100MF | 20% | 4V |
| C28 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C29 | 1-164-337-11 | CERAMIC CHIP 2.2MF | | 16V |
| | | <DIODE> | | |
| D1 | 8-719-989-22 | DIODE CL-150R-CD | | |
| D2 | 8-719-946-33 | DIODE HSM276S | | |
| | | <IC> | | |
| IC1 | 8-759-605-59 | IC CXA1280N | | |
| IC2 | 8-759-044-56 | IC BU2305F | | |
| | | <COIL> | | |
| L1 | 1-424-334-11 | COIL | | |
| L2 | 1-410-655-31 | INDUCTOR CHIP 120UH | | |
| L3 | 1-410-390-11 | INDUCTOR CHIP 56UH | | |
| L4 | 1-410-393-11 | INDUCTOR CHIP 100UH | | |
| L5 | 1-406-436-11 | COIL (OSC) | | |
| | | <TRANSISTOR> | | |
| Q1 | 8-729-220-93 | TRANSISTOR 2SK209-G | | |
| Q2 | 8-729-141-48 | TRANSISTOR 2SB624-BV345 | | |
| Q3 | 8-729-900-52 | TRANSISTOR DTC114YK | | |
| Q4 | 8-729-906-45 | TRANSISTOR DTA143XK | | |
| Q5 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | | |
| | | <RESISTOR> | | |
| JW1 | 1-216-296-00 | METAL GLAZE 0 | 5% | 1/8W |
| R1 | 1-216-057-00 | METAL GLAZE 2.2K | 5% | 1/10W |
| R2 | 1-216-025-00 | METAL GLAZE 100 | 5% | 1/10W |
| R3 | 1-216-025-00 | METAL GLAZE 100 | 5% | 1/10W |
| R4 | 1-216-057-00 | METAL GLAZE 2.2K | 5% | 1/10W |
| R5 | 1-216-069-00 | METAL GLAZE 6.8K | 5% | 1/10W |
| R6 | 1-216-029-00 | METAL GLAZE 150 | 5% | 1/10W |
| R7 | 1-216-085-00 | METAL GLAZE 33K | 5% | 1/10W |
| R8 | 1-216-061-00 | METAL GLAZE 3.3K | 5% | 1/10W |
| R9 | 1-216-049-00 | METAL GLAZE 1K | 5% | 1/10W |
| R10 | 1-216-073-00 | METAL GLAZE 10K | 5% | 1/10W |
| R11 | 1-216-089-00 | METAL GLAZE 47K | 5% | 1/10W |
| R12 | 1-216-049-00 | METAL GLAZE 1K | 5% | 1/10W |
| R13 | 1-216-115-00 | METAL GLAZE 560K | 5% | 1/10W |
| R14 | 1-216-108-00 | METAL GLAZE 300K | 5% | 1/10W |
| | | <SWITCH> | | |
| SW1 | 1-572-473-11 | SWITCH, TACTIL | | |
| | | <VARIABLE RESISTOR> | | |
| VOL1 | 1-238-906-11 | RES, VAR, CARBON 10K | | |

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TV Group

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